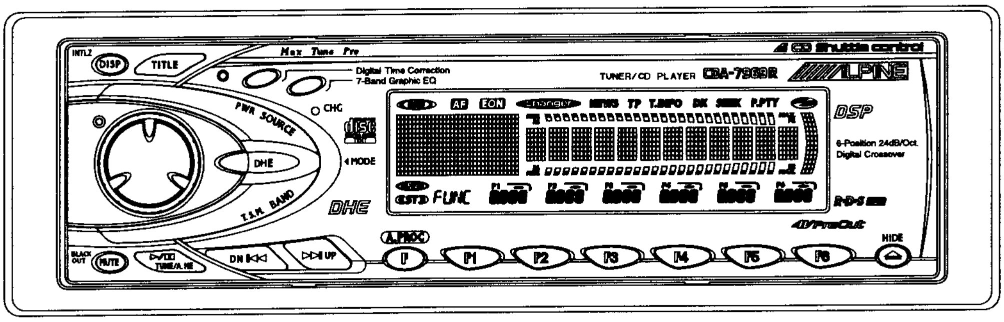
ALPINE

SERVICE MANUAL

FM/MW/LW Compact Disc Player

COMPACT
disc
DIGITAL AUDIO
TEXT


INTLZ
DISP
TITLE
Max Tune Pro
CD Shuttle control
Digital Time Correction
7-Band Graphic EQ
TUNER/CD PLAYER
CDA-7969R
ALPINE
PWR SOURCE
CHG
MODE
DHE
T.S.M. BAND
AF
EON
NEWS
TP
T.INFO
DX
SEEK
P.PTY
FUNC
DSP
6-Position 24dB/Oct.
Digital Crossover
R·D·S
4V PreOut
A.PROC
HIDE
BLACK OUT
MUTE
TUNE/A.ME
DN
UP
F
P1
P2
P3
P4
P5
P6

CDA-7969R

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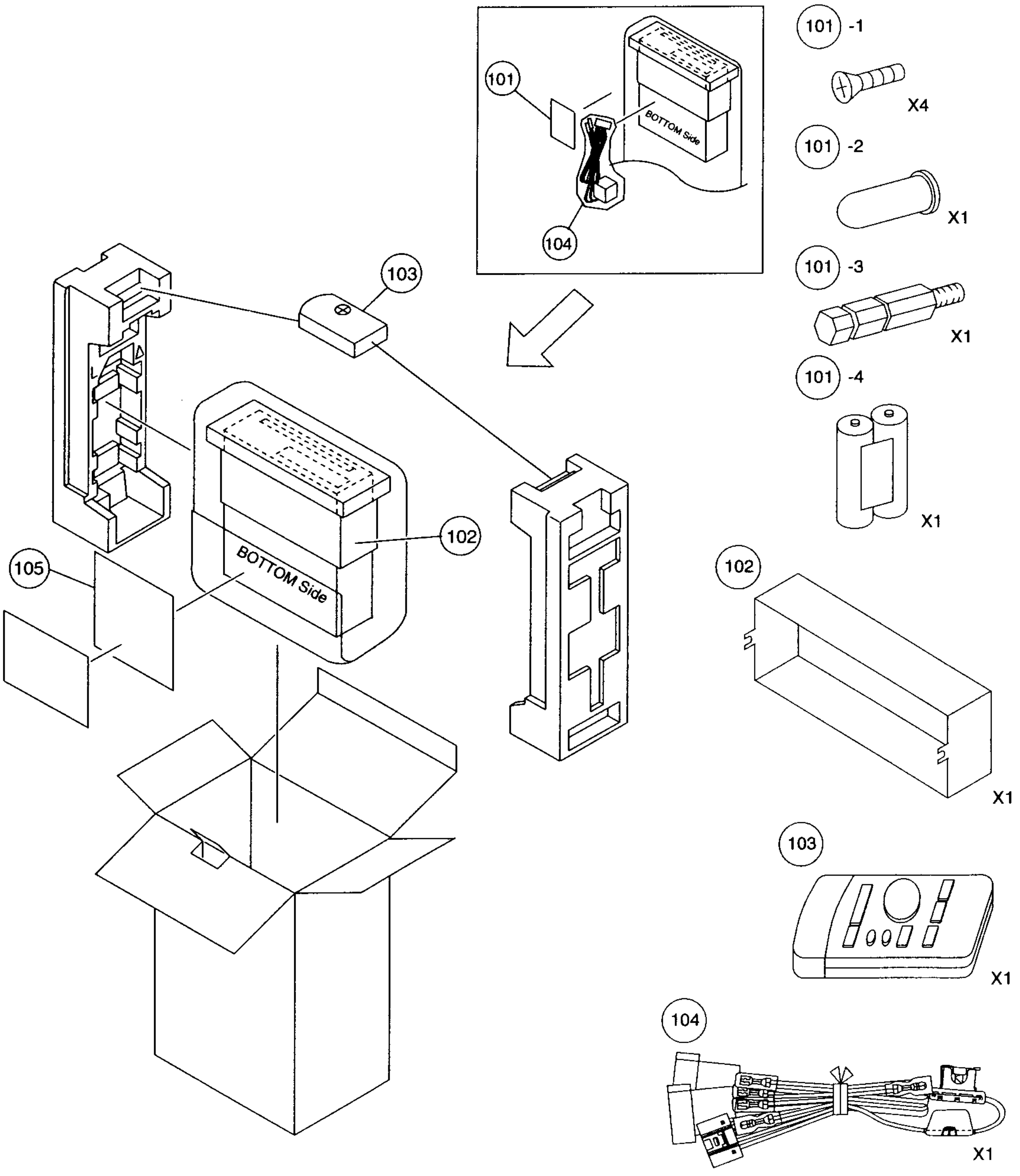
NOTE : Due to continuing product improvement, specifications and designs are subject to change without notice.

Packing Assembly Parts List

Symbol No.	Part No.	Description
101-1	03S72235F13	SCR, MCH M5X8 FLAT
101-2	36A11113W01	CAP, RUBBER (A)
101-3	03A11112W01	BOLT, HEX. M5 (A)
101-4	60T55630W01	BAT, MGN R03 (NB) UM-4
102	15D50406W01	CASE, INNER
103	01T00716K02	ASSY, REMOCON
104	01T15359Y07	ASSY, WIRE PWR 7969R
105	68P30540Y31	O/M AOEU

Packing Method View


101
104
BOTTOM Side
103
102
BOTTOM Side
105
101 -1
X4
101 -2
X1
101 -3
X1
101 -4
X1
102
X1
103
X1
104
X1

Specifications

<CD SECTION>

System	Optical (Compact Disc System)
Quantizing Bit Number	16bit Linear system
Channels	2 Channels
Channel Balance (1kHz)	0±3dB
Distortion (1kHz)	0.1%
Frequency Response (Ref. 1kHz)	17Hz : 0±3dB 127Hz : 0±2dB 10.007kHz : 0±2dB 19.997kHz : 0±4dB
S/N Ratio	80dB
Separation (1kHz)	55dB
De-Emphasis (Ref. 1kHz)	4kHz : -20±3dB 16kHz : -20±3dB

<FM RADIO>

Intermediate Frequency	10.7±0.1MHz
Frequency Range	87.5~108MHz
Usable Sensitivity (Mono, at 98.1MHz)	17.2dBf
-3dB Limiting Sensitivity (at 98.1MHz)	21.2dBf
Residual Noise (Ref. 400Hz, at 98.1MHz)	25±10dB
S/N Ratio (Stereo, at 98.1MHz)	55dB
Image Rejection (at 106.1MHz)	40dB
IF Rejection (at 90.1MHz)	60dB
Distortion (Input 60dBμ, at 98.1MHz)	1%
Frequency Response (Ref. 400Hz, at 98.1MHz)	100Hz : 0±3dB 10kHz : -12±3dB
Stereo Separation (1kHz, at 98.1MHz)	20dB
PS Sensitivity (at 98.1MHz)	25dB

<MW RADIO>

Intermediate Frequency	1st. : 10.7MHz 2nd. : 450kHz
Frequency Range	531~1,602kHz
Usable Sensitivity (20dB S/N, at 999kHz)	34dB
S/N Ratio (at 999kHz)	44dB
Image Rejection (at 1,404kHz)	50dB
IF Rejection (at 603kHz)	60dB
Distortion (at 999kHz)	1.5%
Frequency Response (Ref. 400Hz, at 999kHz)	100Hz : -3±4dB 4kHz : -11+6, -12dB

<LW RADIO>

Intermediate Frequency	1st. : 10.7MHz 2nd. : 450kHz
Frequency Range	153~281kHz
Usable Sensitivity (20dB S/N, at 216kHz)	42dB
S/N Ratio (at 216kHz)	44dB
Image Rejection (at 270kHz)	50dB
IF Rejection (at 162kHz)	60dB
Distortion (at 216kHz)	1.5%
Frequency Response (Ref. 400Hz, at 216kHz)	100Hz : -3±4dB 4kHz : -11+6, -12dB

<GENERAL>

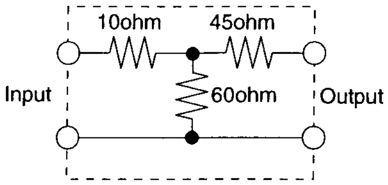
Power Supply	DC14.4V
Pre Output (at VOL 25) /Impedance	1.5V/10Kohm
Dimensions (W×H×D)	Chassis : 178×50×155mm Nose : 165×46×18mm
Weight	1.5kg

NOTES : Due to Continuing product improvement, specifications and designs are subject to change without notice.

Adjustment Procedures

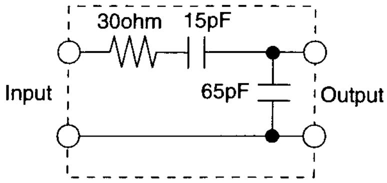
1. FM/MW/LW SECTION

(1) Dummy Antenna Circuit


10ohm
45ohm
Input
60ohm
Output

For 50 ohm FM Signal Generator

Figure 1


30ohm
15pF
Input
65pF
Output

For 50 ohm MW/LW Signal Generator

Figure 2

(2) Connections

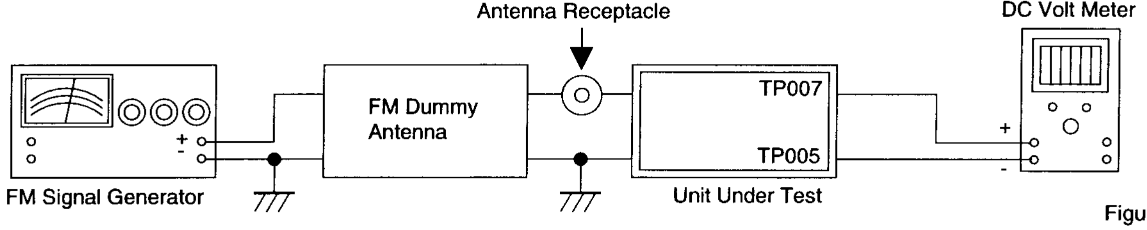

Antenna Receptacle
DC Volt Meter
+
-
FM Dummy Antenna
TP007
TP005
+
-
FM Signal Generator
Unit Under Test

Figure 3

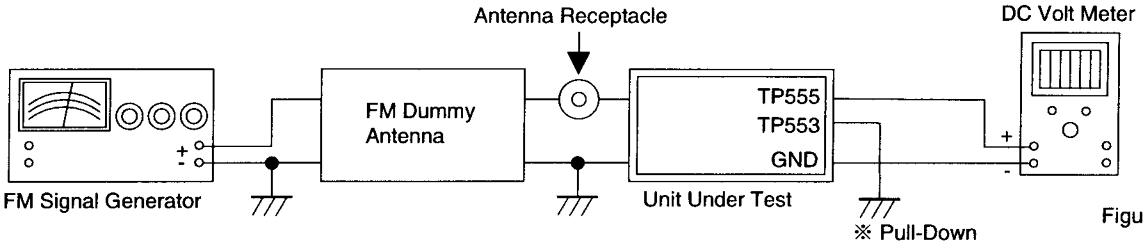

Antenna Receptacle
DC Volt Meter
+
-
FM Dummy Antenna
TP555
TP553
GND
+
-
FM Signal Generator
Unit Under Test
※ Pull-Down

Figure 4

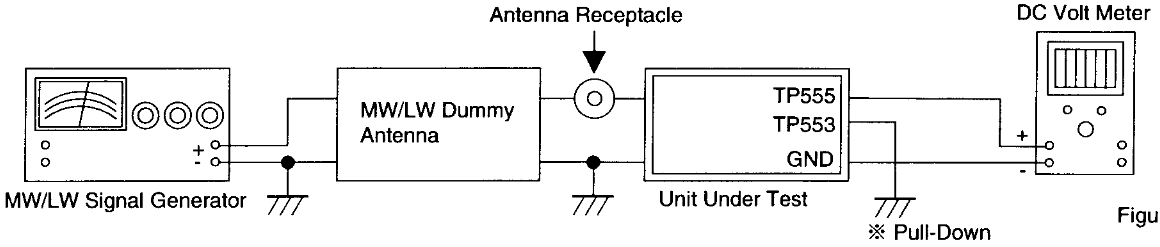

Antenna Receptacle
DC Volt Meter
+
-
MW/LW Dummy Antenna
TP555
TP553
GND
+
-
MW/LW Signal Generator
Unit Under Test
※ Pull-Down

Figure 5

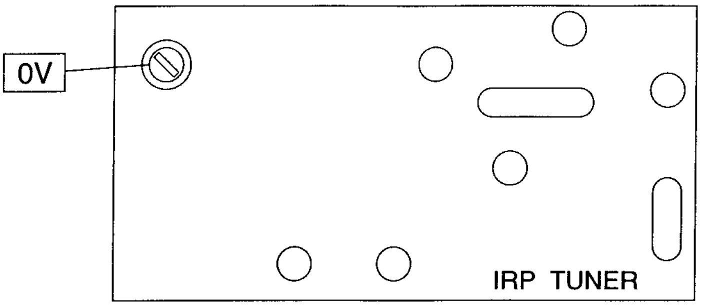
(3) Control Settings

Power Switch .... ON DHE Control .... OFF Position
EQ Control .... FLAT Position Others .... OFF

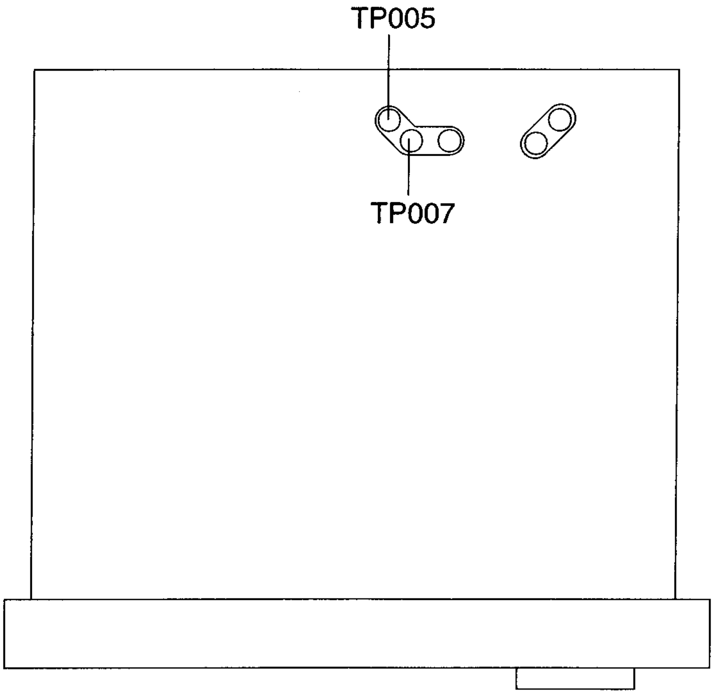
(4) Adjustment Procedures

Step	Description	Connection	Signal Generator		Dial Control	Test Point / P.W.Board Coordinates	Adjustment
1	IF Adjustment	Figure 3	98.1MHz, 72dBμ (Mod. OFF)		98.1MHz	TP005 (1-E) TP007 (1-E)	Adjust $\boxed{\text{0V}}$ to 0±30mV.
2	Signal Meter Adjustment (FM)	Figure 4	98.1MHz, 51dBμ (Mod. OFF)		98.1MHz	TP553 (2-B) TP555 (2-B)	Auto Adjustment : After setting up of Signal Generator, short GND and TP553 (Pull-Down). (SPEC) TP555 : 3±0.1V
3	Signal Meter Adjustment (MW)	Figure 5	(1)	999kHz, 30dBμ (Mod. OFF)	999kHz	TP553 (2-B) TP555 (2-B)	Auto Adjustment : After setting up of Signal Generator, short GND and TP553 (Pull-Down).
			(2)	999kHz, 32dBμ (Mod. OFF)	999kHz	TP553 (2-B) TP555 (2-B)	Proceed same Auto Adjustment of step (1) under step (2). (SPEC) TP555 : 1.4±0.1V → OK (SPEC) TP555 : others 1.4±0.1V → NG NOTE : NG : Proceed same Auto Adjustment of step (1) under step (3).
			(3)	999kHz, 27~29dBμ (Mod. OFF)	999kHz	TP553 (2-B) TP555 (2-B)	Proceed same Auto Adjustment of step (1) under step (3).
			(4)	999kHz, 32dBμ (Mod. OFF)	999kHz	TP553 (2-B) TP555 (2-B)	Proceed same Auto Adjustment of step (1) under step (4).
4	Signal Meter Adjustment (LW)	Figure 5	(1)	216kHz, 30dBμ (Mod. OFF)	216kHz	TP553 (2-B) TP555 (2-B)	Auto Adjustment : After setting up of Signal Generator, short GND and TP553 (Pull-Down).
			(2)	216kHz, 32dBμ (Mod. OFF)	216kHz	TP553 (2-B) TP555 (2-B)	Proceed same Auto Adjustment of step (1) under step (2). (SPEC) TP555 : 1.4±0.1V → OK (SPEC) TP555 : others 1.4±0.1V → NG NOTE : NG : Proceed same Auto Adjustment of step (1) under step (3).
			(3)	216kHz, 27~29dBμ (Mod. OFF)	216kHz	TP553 (2-B) TP555 (2-B)	Proceed same Auto Adjustment of step (1) under step (3).
			(4)	216kHz, 32dBμ (Mod. OFF)	216kHz	TP553 (2-B) TP555 (2-B)	Proceed same Auto Adjustment of step (1) under step (4).

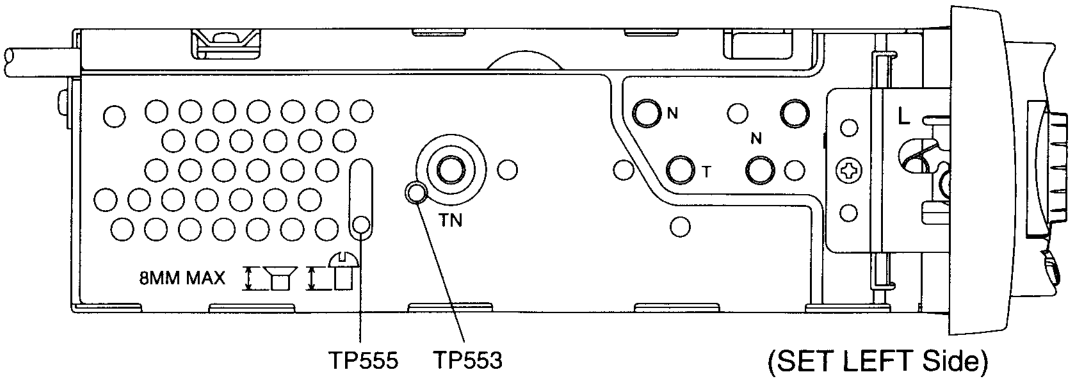
Adjustment Locations


0V
IRP TUNER

FM/AM Tuner Unit, MB4R9030 (TU001)


TP005
TP007

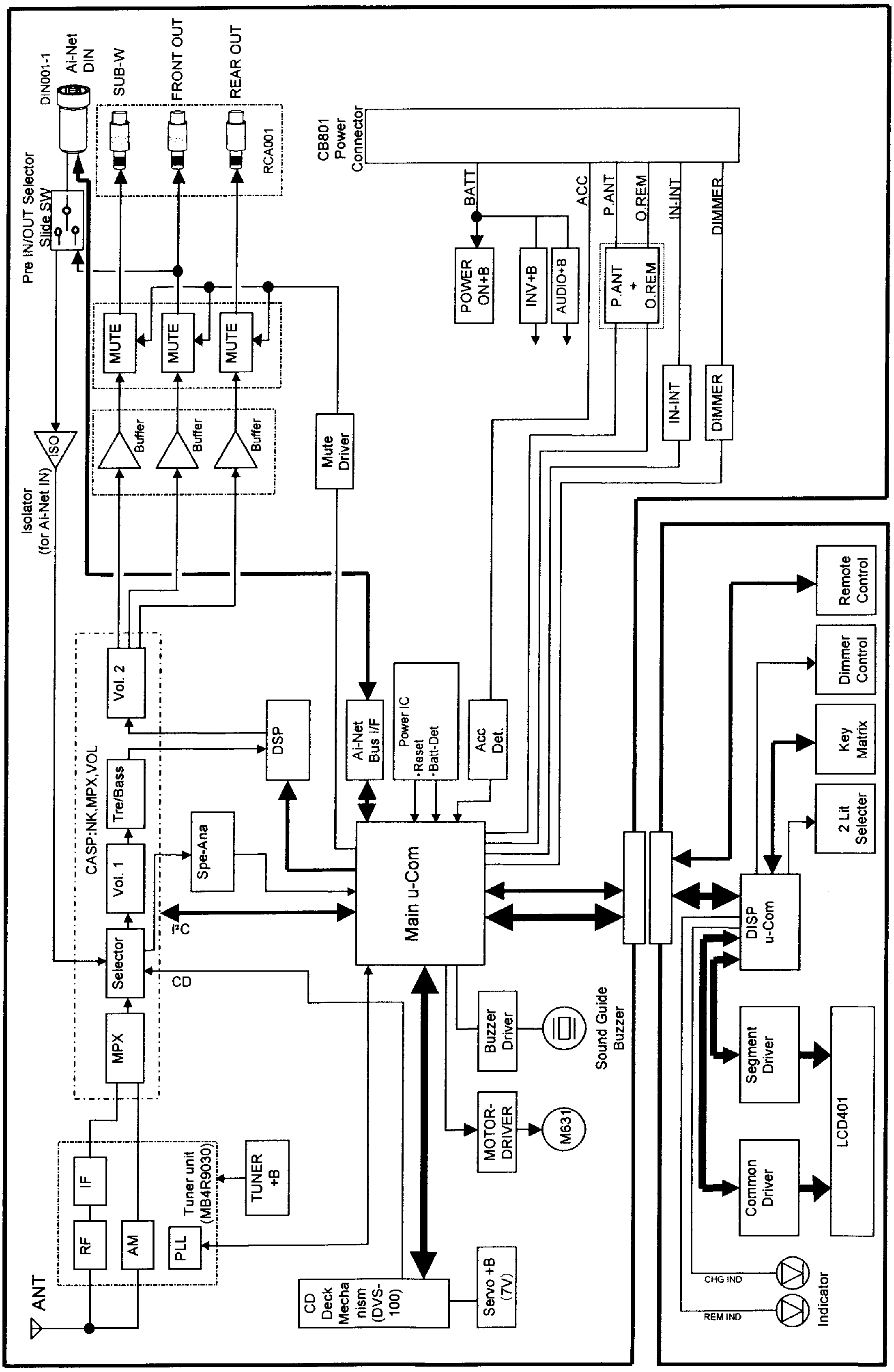
SET BOTTOM Side


N
N
T
L
TN
8MM MAX
TP555
TP553

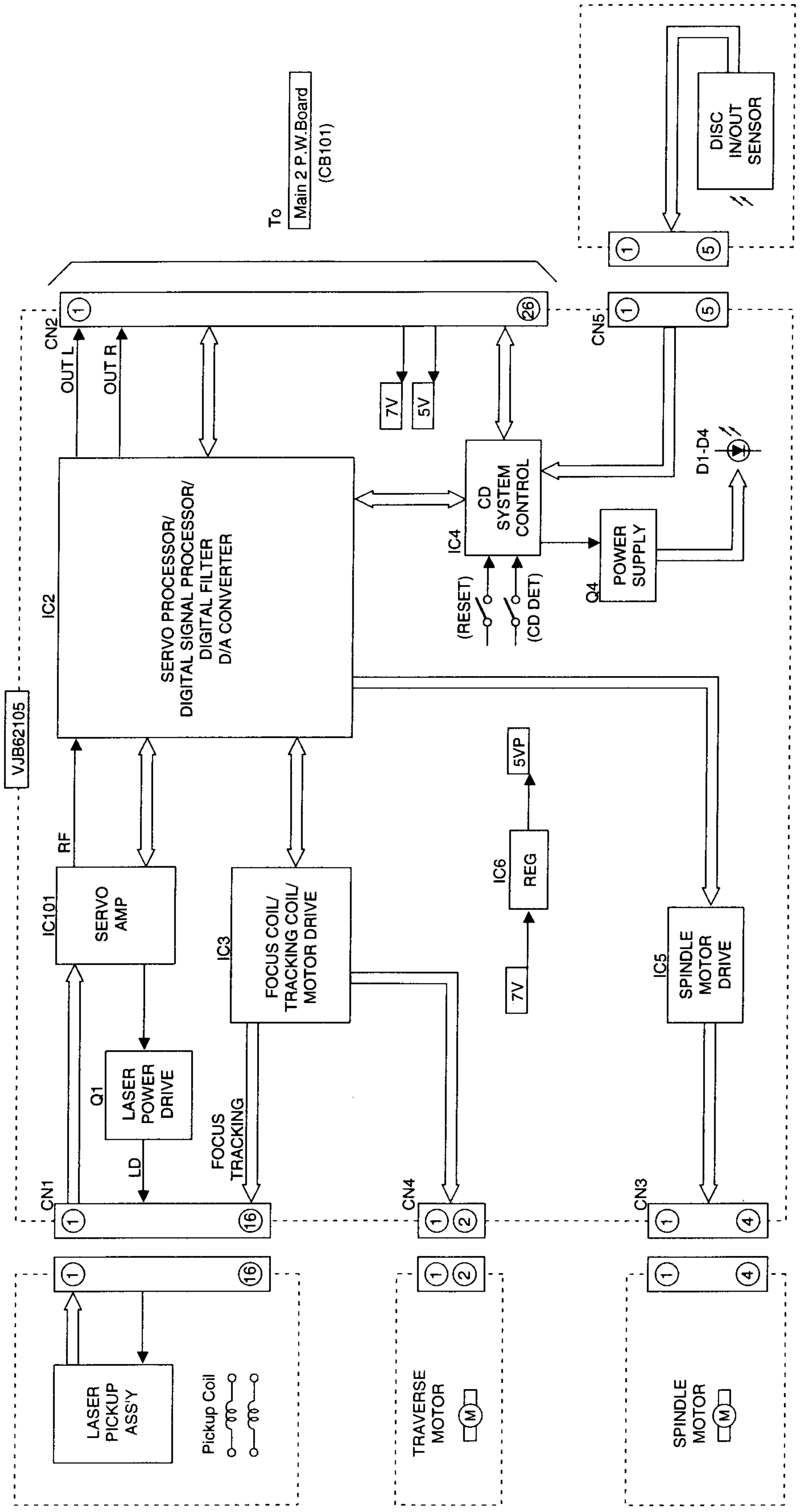
(SET LEFT Side)

NOTE : For the Test Points, refer to the Parts Layout on P.W.Boards and Wiring Diagram.

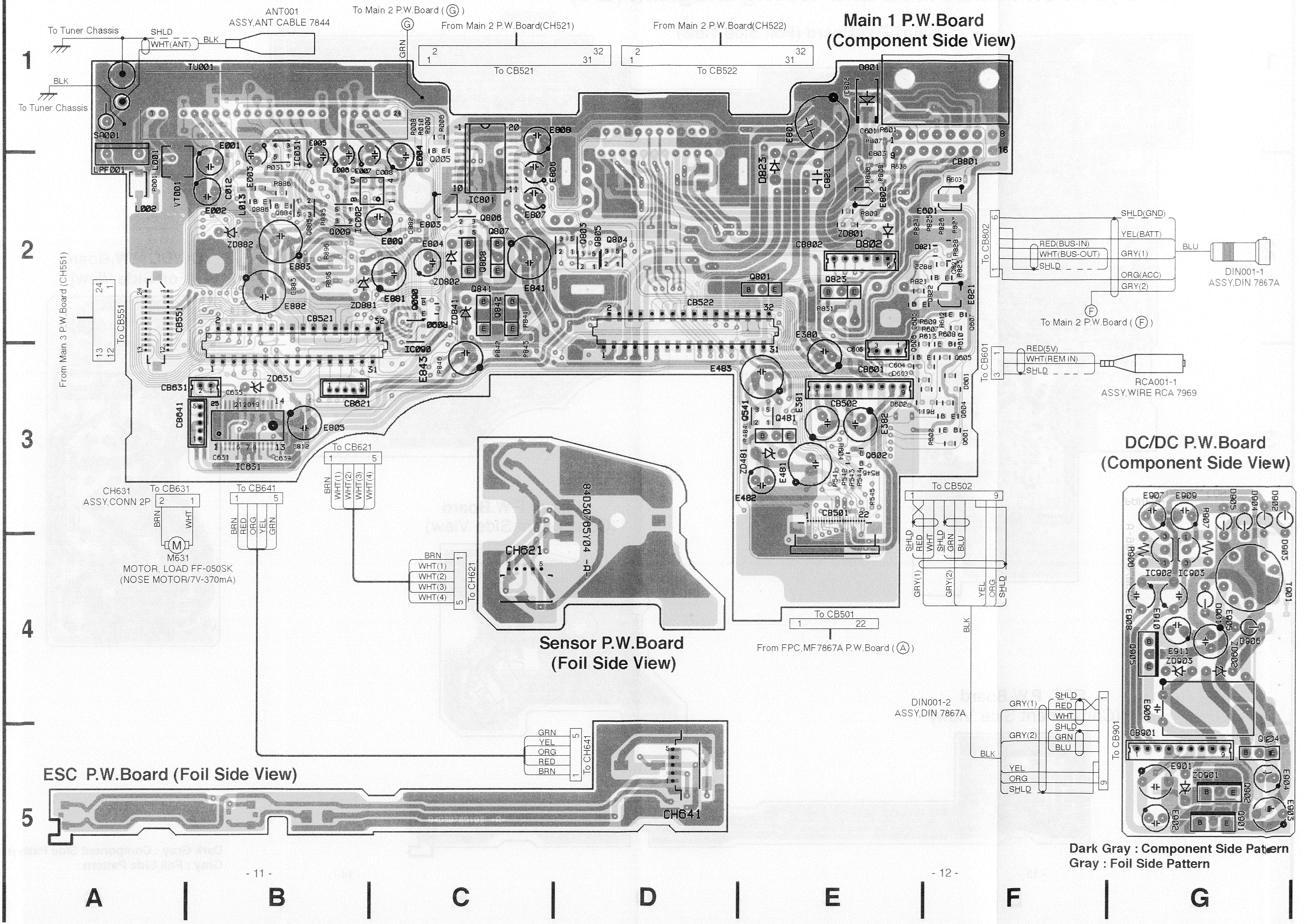
Block Diagram


DIN001-1
Ai-Net DIN
SUB-W
FRONT OUT
REAR OUT
RCA001
Pre IN/OUT Selector Slide SW
CB801 Power Connector
BATT
ACC
P.ANT
O.REM
IN-INT
DIMMER
POWER ON+B
INV+B
AUDIO+B
P.ANT + O.REM
MUTE
MUTE
MUTE
Buffer
Buffer
Buffer
ISO
Isolator (for Ai-Net IN)
Mute Driver
IN-INT
DIMMER
CASP:NK,MPX,VOL
Vol. 2
Tre/Bass
Vol. 1
Selector
MPX
DSP
Spe-Ana
Ai-Net Bus I/F
Power IC ·Reset ·Batt-Det
Acc Det.
Main u-Com
I²C
CD
Buzzer Driver
Sound Guide Buzzer
MOTOR-DRIVER
M631
IF
RF
AM
PLL
Tuner unit (MB4R9030)
TUNER +B
ANT
CD Deck Mechanism (DVS-100)
Servo +B (7V)
Remote Control
Dimmer Control
Key Matrix
2 Lit Selecter
DISP u-Com
Segment Driver
Common Driver
LCD401
CHG IND
REM IND
Indicator

(CD Deck Mechanism)


To
Main 2 P.W.Board
(CB101)
DISC IN/OUT SENSOR
CN2
1
26
OUT L
OUT R
7V
5V
CN5
1
5
D1-D4
CD SYSTEM CONTROL
IC4
POWER SUPPLY
Q4
(RESET)
(CD DET)
IC2
SERVO PROCESSOR/
DIGITAL SIGNAL PROCESSOR/
DIGITAL FILTER
D/A CONVERTER
VJB62105
5VP
IC6
REG
7V
RF
IC101
SERVO AMP
IC3
FOCUS COIL/
TRACKING COIL/
MOTOR DRIVE
IC5
SPINDLE MOTOR DRIVE
Q1
LASER POWER DRIVE
LD
FOCUS
TRACKING
CN1
1
16
CN4
1
2
CN3
1
4
LASER PICKUP ASS'Y
Pickup Coil
TRAVERSE MOTOR
M
SPINDLE MOTOR
M

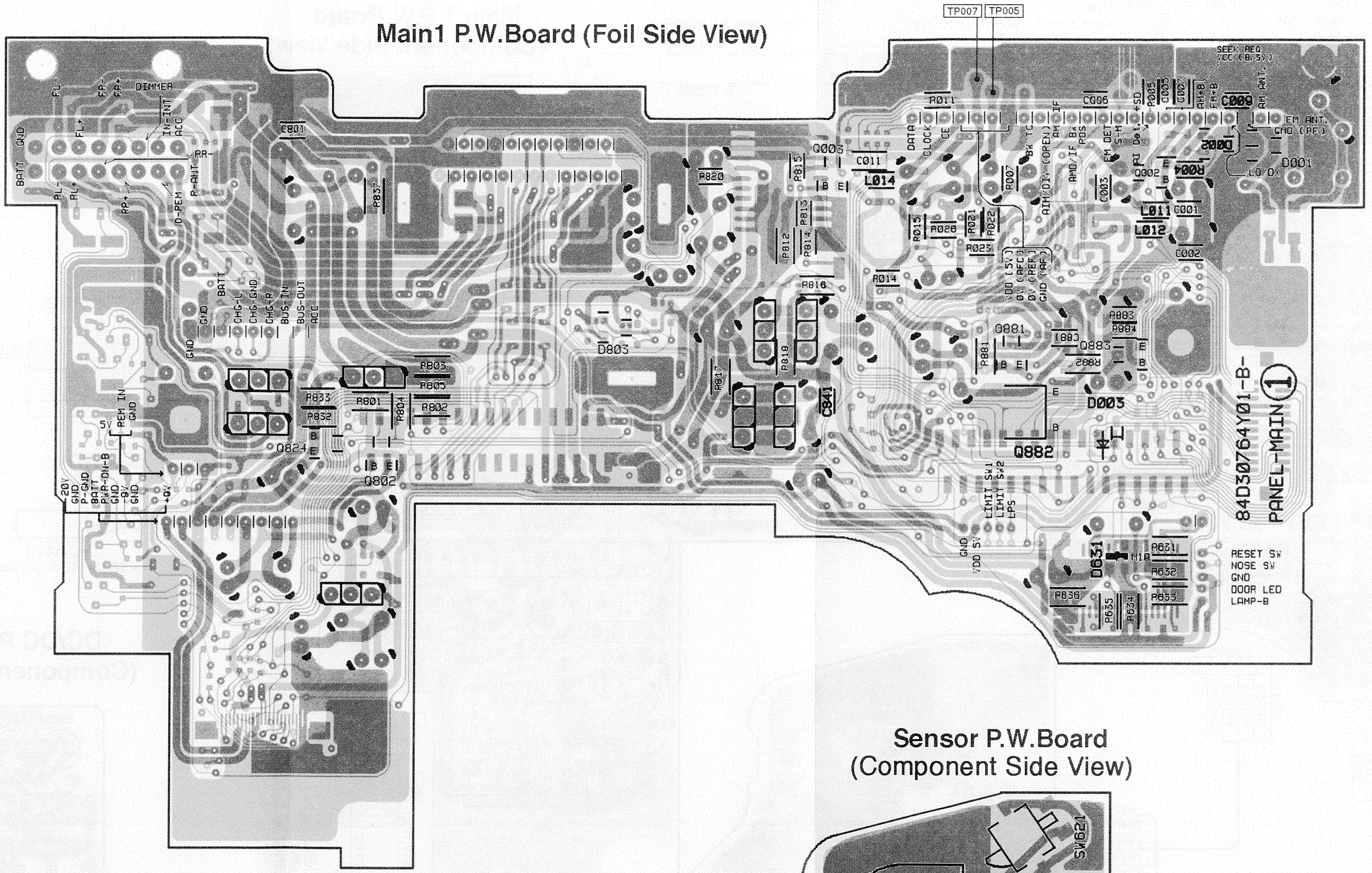
Parts Layout on P.W.Boards and Wiring Diagram (1/6)


Main 1 P.W.Board
(Component Side View)
DC/DC P.W.Board
(Component Side View)
Sensor P.W.Board
(Foil Side View)
ESC P.W.Board (Foil Side View)
To Tuner Chassis
SHLD
WHT(ANT)
BLK
ANT001
ASSY,ANT CABLE 7844
To Main 2 P.W.Board (G)
GRN
From Main 2 P.W.Board(CH521)
From Main 2 P.W.Board(CH522)
To CB521
To CB522
TU001
SA001
LPF001
L001
L002
VT001
E001
E002
IC031
IC801
IC002
IC631
D801
CB801
CB802
CB601
CB521
CB522
CB551
CB631
CB641
CB621
CB502
CB501
E801
D823
ZD801
D802
SHLD(GND)
YEL(BATT)
RED(BUS-IN)
WHT(BUS-OUT)
GRY(1)
BLU
ORG(ACC)
GRY(2)
To CB802
DIN001-1
ASSY,DIN 7867A
To Main 2 P.W.Board (F)
RED(5V)
WHT(REM IN)
To CB601
RCA001-1
ASSY,WIRE RCA 7969
From Main 3 P.W.Board (CH551)
To CB551
CH631
ASSY,CONN 2P
To CB631
BRN
WHT
M631
MOTOR, LOAD FF-050SK
(NOSE MOTOR/7V-370mA)
To CB641
RED
ORG
YEL
To CB621
WHT(1)
WHT(2)
WHT(3)
WHT(4)
To CH621
CH621
84D30765V04 -A-
To CB502
To CB501
From FPC,MF7867A P.W.Board (A)
DIN001-2
ASSY,DIN 7867A
To CB901
CB901
IC902
IC903
T001
ZD901
ZD902
ZD903
To CH641
CH641
1
2
3
4
5
A
B
C
D
E
F
G

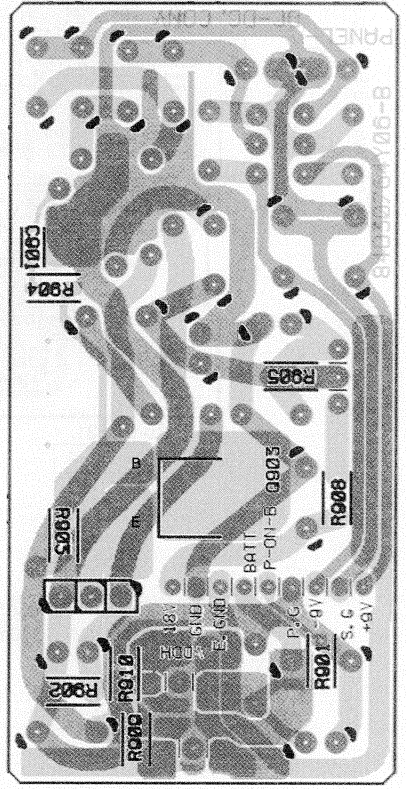
Dark Gray : Component Side Pattern
Gray : Foil Side Pattern

Parts Layout on P.W.Boards and Wiring Diagram (2/6)

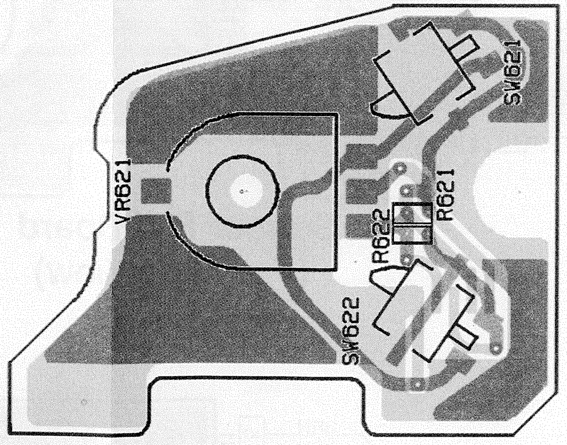
Main1 P.W.Board (Foil Side View)


TP007
TP005
R011
C006
C009
SEEK REQ
ACC (8.5V)
FM ANT.
GND (RF)
AM ANT.
D001
C011
L014
Q003
R815
R820
R807
R813
R812
R814
R816
R015
R026
R021
R022
R023
R014
Q002
R006
L011
L012
C001
C002
C003
R803
R805
R801
R802
R833
R832
R804
Q824
Q802
D803
R817
R818
C841
Q881
R881
R883
R884
Q883
Q882
D003
D631
R631
R632
R633
R634
R635
R636
RESET SW
NOSE SW
GND
DOOR LED
LAMP-B
84D30764Y01-B-
PANEL-MAIN ①
BATT
GND
DIMMER
IN-INT
ACC
BUS-OUT
BUS-IN
VDD 5V

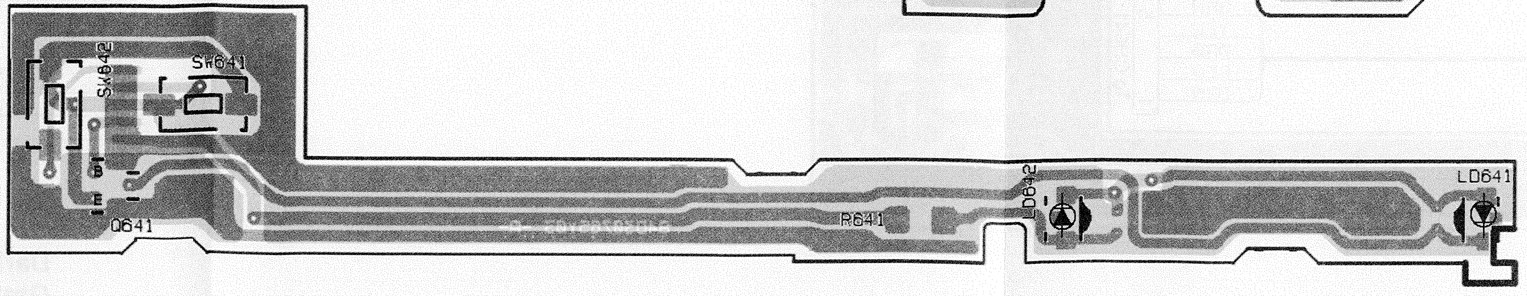
DC/DC P.W.Board
(Foil Side View)


C901
R904
R905
Q903
R903
R908
R902
R910
R901
R906
BATT
P-ON-B

Sensor P.W.Board
(Component Side View)


SW621
VR621
R621
R622
SW622

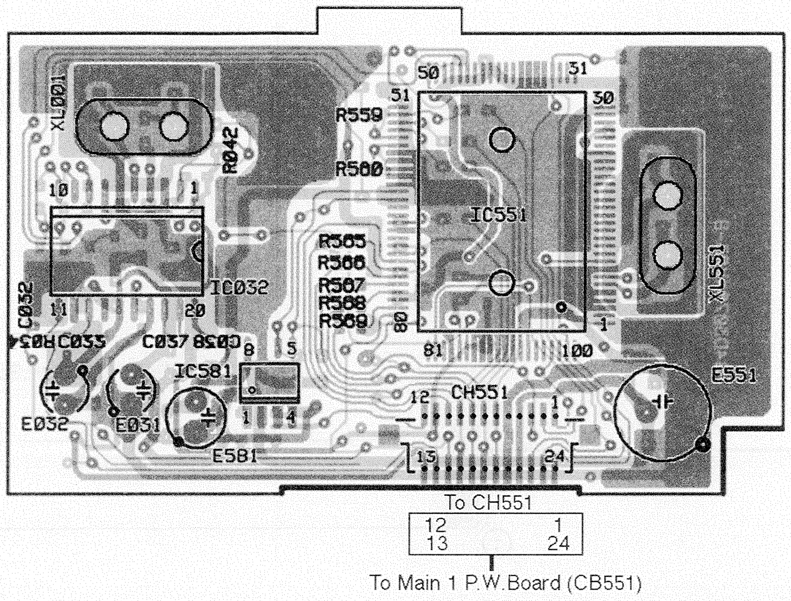
ESC P.W.Board
(Component Side View)


SW642
SW641
Q641
R641
LD642
LD641

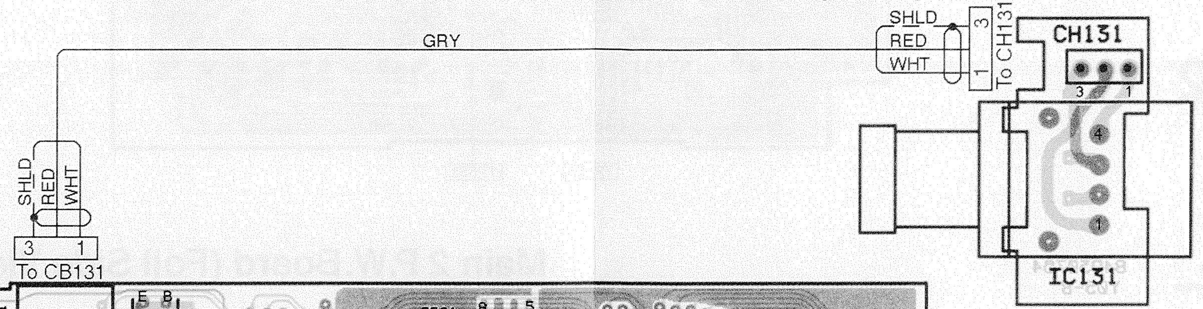
Dark Gray : Component Side Pattern
Gray : Foil Side Pattern

Parts Layout on P.W.Boards and Wiring Diagram (3/6)

1
2
3
4
5

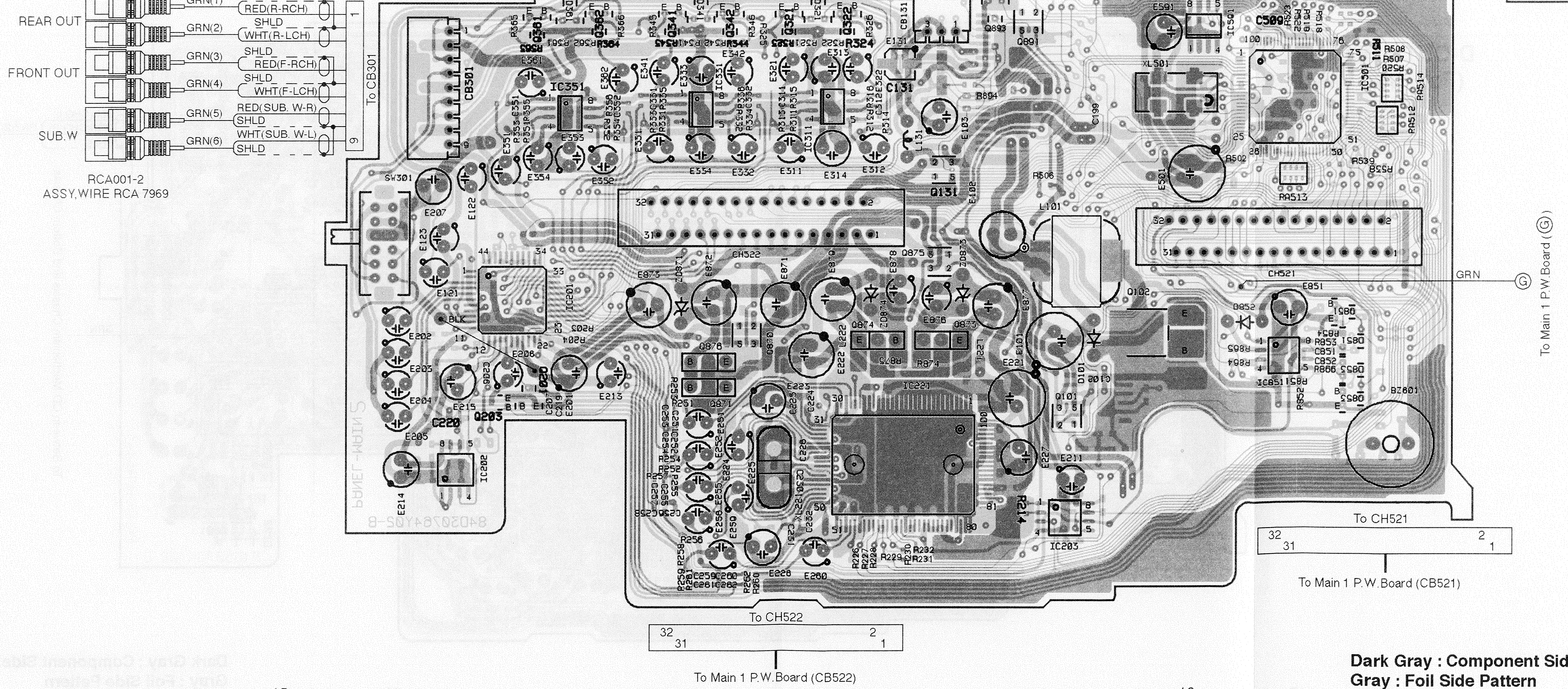

XL001
R042
IC032
C032
R034
C033
C037
E032
E031
IC581
E581
R559
R560
IC551
R565
R566
R567
R568
R569
CH551
XL551
E551
To CH551
12
13
1
24
To Main 1 P.W.Board (CB551)

Main 3 P.W.Board
(Component Side View)


GRY
SHLD
RED
WHT
3
1
To CH131
CH131
IC131
To CB131

D-OUT P.W.Board
(Component Side View)

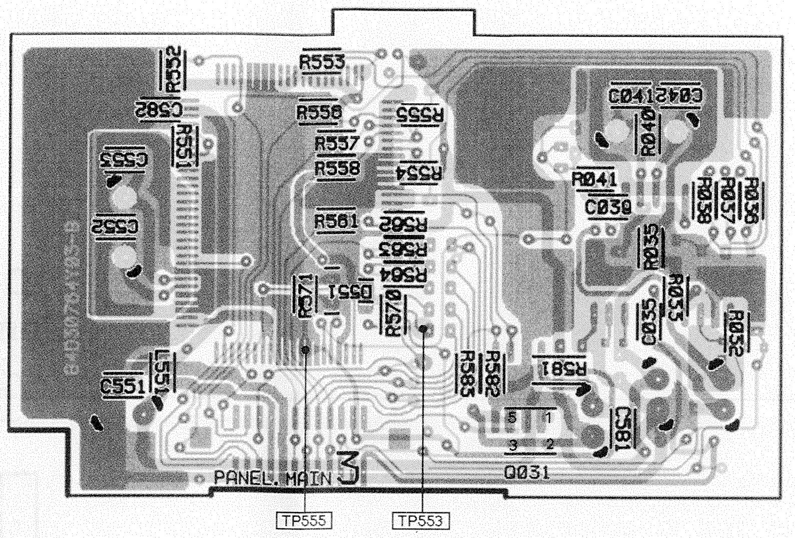
Main 2 P.W.Board (Component Side View)


REAR OUT
FRONT OUT
SUB.W
GRN(1)
GRN(2)
GRN(3)
GRN(4)
GRN(5)
GRN(6)
SHLD
RED(R-RCH)
WHT(R-LCH)
RED(F-RCH)
WHT(F-LCH)
RED(SUB. W-R)
WHT(SUB. W-L)
1
9
To CB301
RCA001-2
ASSY,WIRE RCA 7969
CB501
IC351
SW301
CH522
CH521
CB131
C131
Q131
L101
IC201
IC221
IC202
IC203
IC501
XL501
IC851
BZ601
BLK
GRN
G
To Main 1 P.W.Board (G)
To CH522
32
31
2
1
To Main 1 P.W.Board (CB522)
To CH521
To Main 1 P.W.Board (CB521)

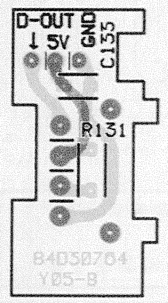
Dark Gray : Component Side Pattern
Gray : Foil Side Pattern

Parts Layout on P.W.Boards and Wiring Diagram (4/6)

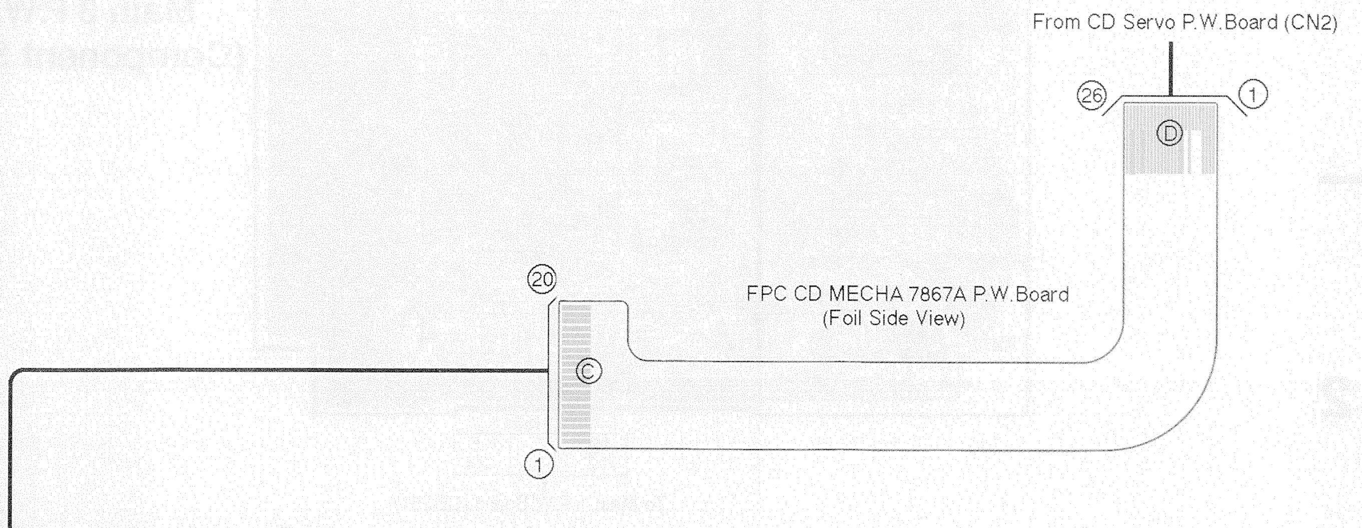
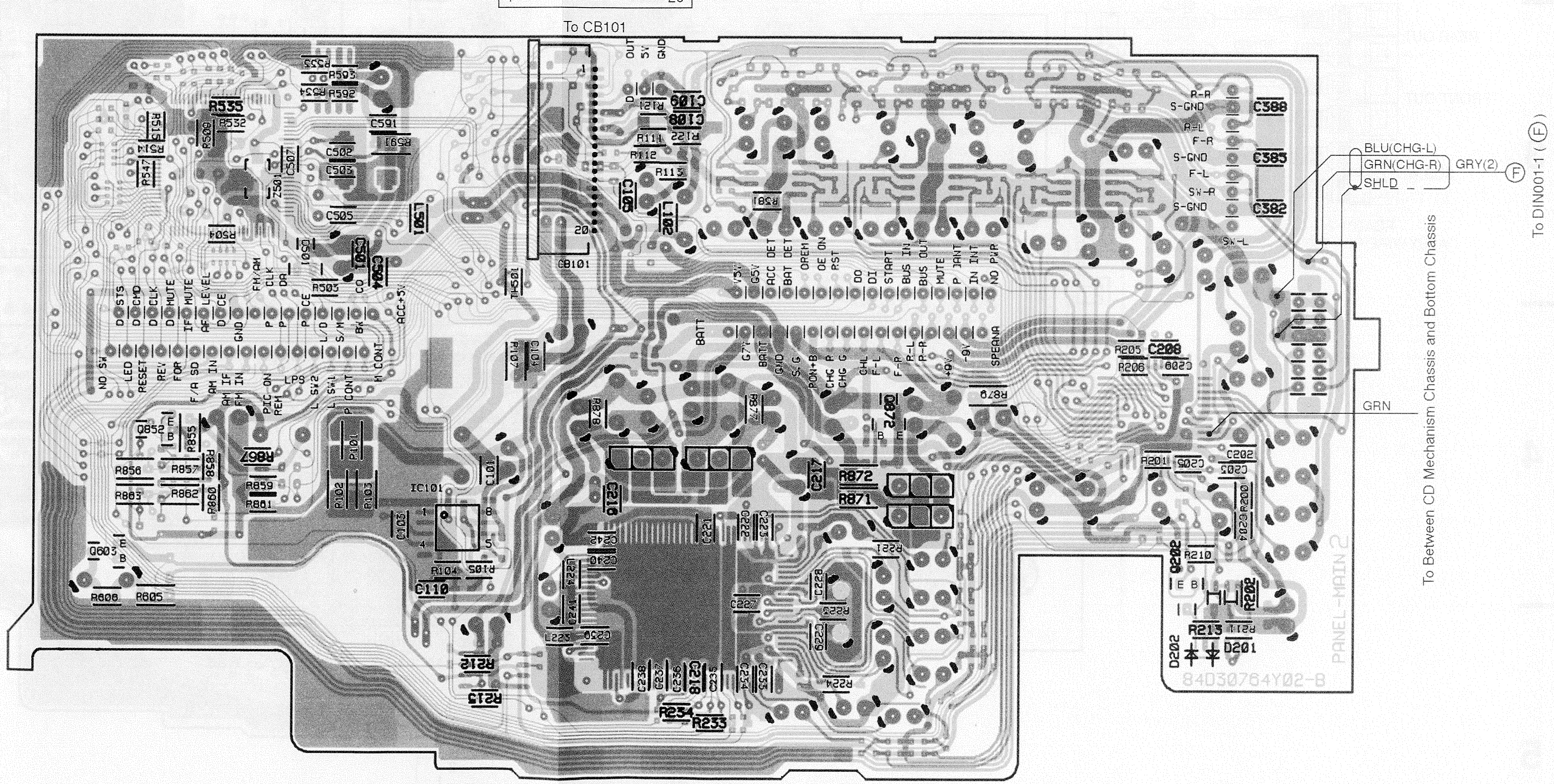
Main 3 P.W.Board (Foil Side View)


R552
C582
R553
R556
R555
R557
R558
R554
R551
C552
C553
R561
R502
R503
R504
R571
D551
R570
C041
C042
R040
R041
C039
R038
R037
R036
R035
R033
C035
R032
R581
R582
R583
C581
C551
L551
5 1
3 2
Q031
PANEL MAIN 3
TP555
TP553
84D30764Y03-B

D-OUT P.W.Board (Foil Side View)


D-OUT
5V
GND
C135
R131
84D30764
Y05-B

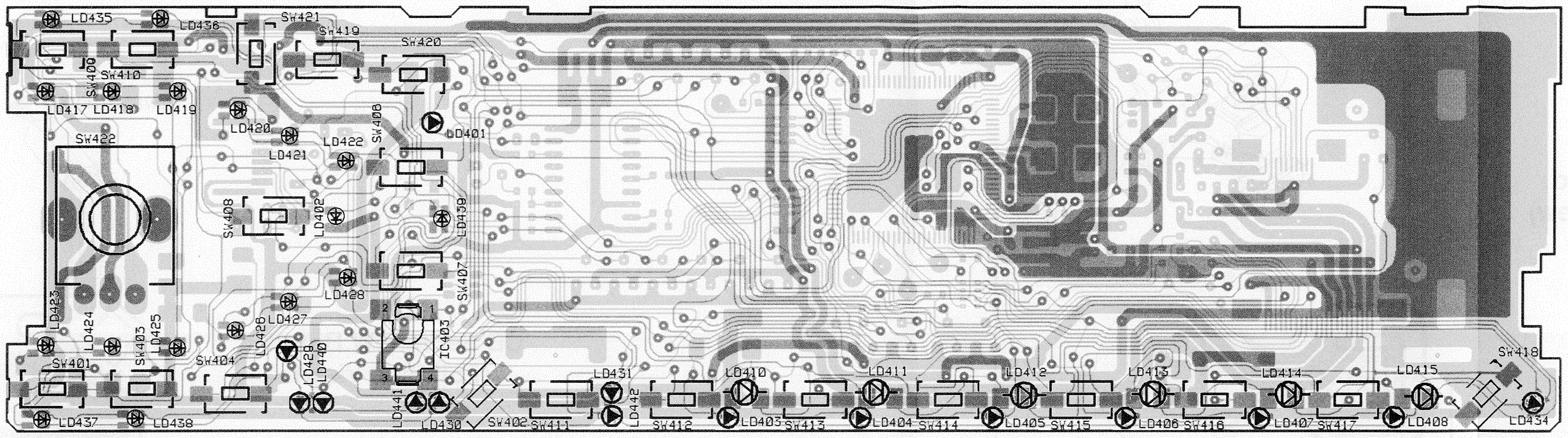
Main 2 P.W.Board (Foil Side View)



From CD Servo P.W.Board (CN2)
㉖
①
Ⓓ
⑳
Ⓒ
①
FPC CD MECHA 7867A P.W.Board
(Foil Side View)
1
20
To CB101
OUT
5V
GND
CB101
R535
R532
R593
R592
R534
R515
R547
R509
C591
C502
C503
R591
C505
C507
R504
L501
C501
C504
R505
T501
R107
C104
R121
R111
R112
R113
C109
C108
R122
C105
L102
R301
V5V
G5V
ACC DET
BAT DET
OPEN
OE ON
RST
DO
DI
START
BUS IN
BUS OUT
MUTE
P ANT
IN INT
NO PWR
BATT
SPEANA
DOSTS
DOCMD
DOCLK
DOMUTE
IF MUTE
AF LEVEL
D CE
GND
FM/AM
CLK
DA
CE
CD
ACC+5V
NO SW
LED
RESET
REV
FOR
F/R SD
AM IN
IF
FM IN
AM
PIC ON
REM
LPS
L/D
S/M
SW2
SW1
CONT
R-R
S-GND
R-L
F-R
S-GND
F-L
SW-R
S-GND
SW-L
C388
C385
C382
R205
C208
R206
C209
R879
R878
R877
Q870
R872
R871
C217
C216
Q852
R855
R856
R857
R858
R863
R862
R860
R859
R861
R867
P101
P102
P103
IC101
C101
C103
R104
R105
C110
Q803
R808
R805
C242
C240
C221
C222
C223
C224
C241
C228
R223
C225
C227
L229
C239
R212
R213
R234
R233
C238
C237
C236
C218
C234
C235
R224
R231
R201
C205
C202
C203
R200
R202
R210
R213
D202
D201
PANEL-MAIN 2
84D30764Y02-B
BLU(CHG-L)
GRN(CHG-R)
GRY(2)
SHLD
Ⓕ
To DIN001-1 (F)
To Between CD Mechanism Chassis and Bottom Chassis
GRN

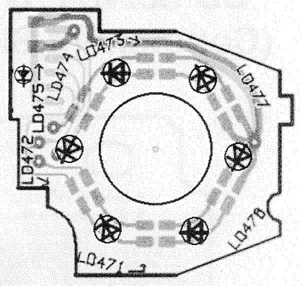
Dark Gray : Component Side Pattern
Gray : Foil Side Pattern

Parts Layout on P.W.Boards and Wiring Diagram (5/6)

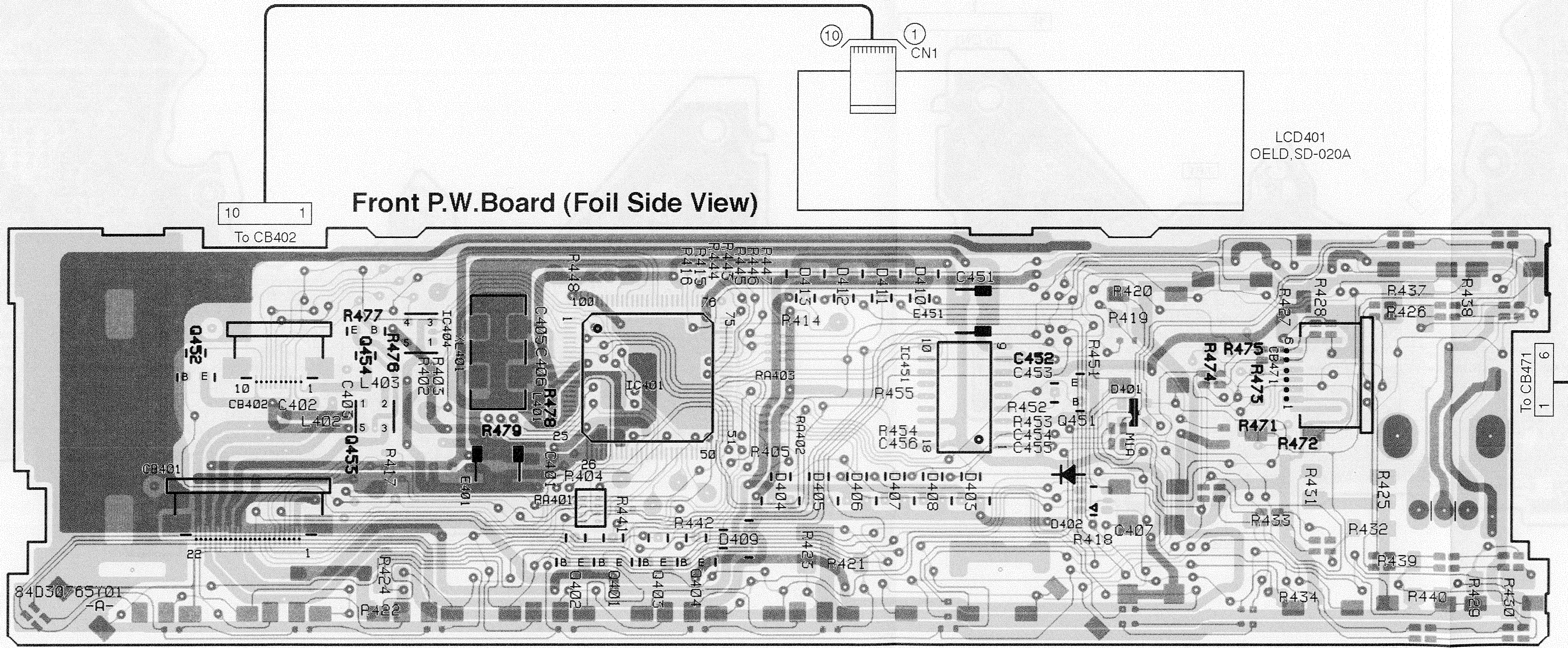
Front P.W.Board (Component Side View)


LD435
LD436
SW421
SW419
SW420
SW400
SW410
LD417 LD418
LD419
LD420
SW408
LD401
SW422
LD422
LD421
SW408
LD402
LD439
SW407
LD428
IC403
LD423
LD424
SW403
LD425
LD426
LD427
LD429
LD440
SW401
SW404
LD441
LD430
SW402
SW411
LD431
LD442
SW412
LD410
LD403
SW413
LD411
LD404
SW414
LD412
LD405
SW415
LD413
LD406
SW416
LD414
LD407
SW417
LD415
LD408
SW418
LD434
LD437
LD438

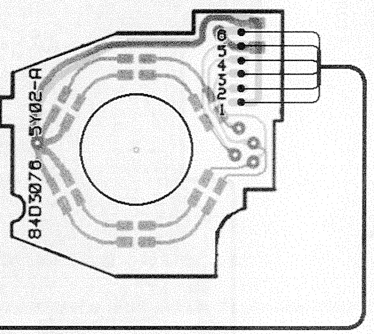
Front Mini P.W.Board (Component Side View)

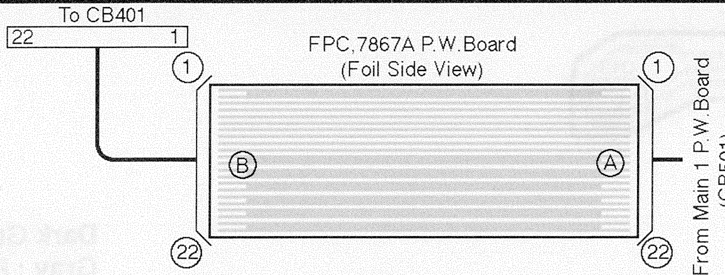

LD472
LD475
LD474
LD473
LD477
LD476
LD471

Front P.W.Board (Foil Side View)


10
1
CN1
LCD401
OELD,SD-020A
10 1
To CB402
Q452
R477
Q454
R476
L403
IC404
C405
C406
L401
R478
R479
IC401
C402
CB402
L402
Q453
CB401
R417
C401
C407
R404
RA401
R441
R442
D409
R423
R421
R424
R422
Q402
Q401
Q403
Q404
84D30765Y01
-A-
R414
RA403
R405
RA402
D404
D405
D406
D407
D408
D403
D413
D412
D411
D410
C451
E451
IC451
C452
C453
R455
R454
C456
R452
R453
Q451
C454
C455
R451
D401
D402
R418
C407
R420
R419
R427
R428
R437
R426
R438
R475
R474
R473
CB471
R471
R472
R431
R425
R433
R432
R439
R434
R440
R429
R430
To CB471
6
1

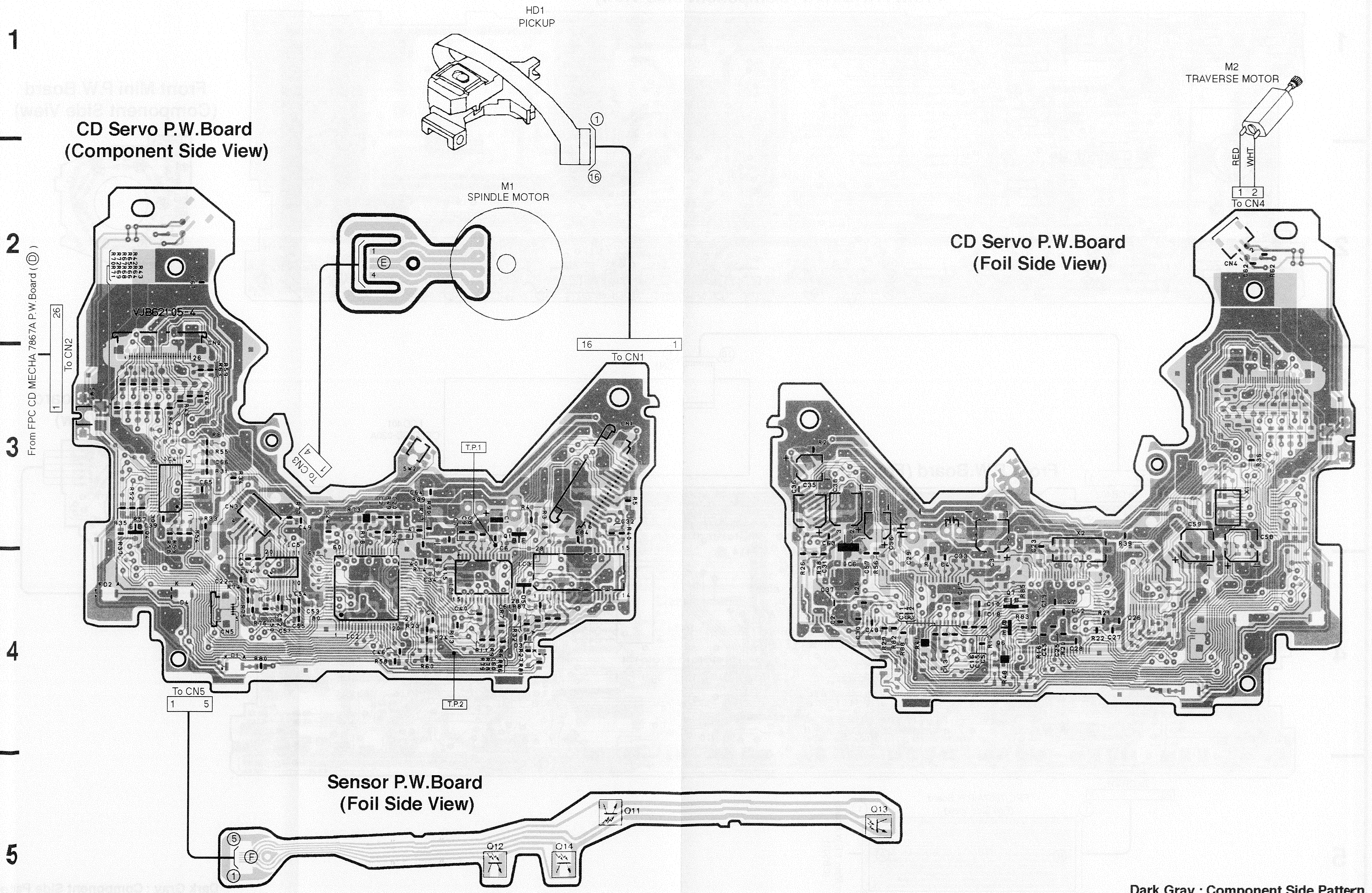
Front Mini P.W.Board (Foil Side View)


84D30765Y02-A-


To CB401
22
1
FPC,7867A P.W.Board
(Foil Side View)
①
①
Ⓑ
Ⓐ
㉒
㉒
From Main 1 P.W.Board
(CB501)

Dark Gray : Component Side Pattern
Gray : Foil Side Pattern

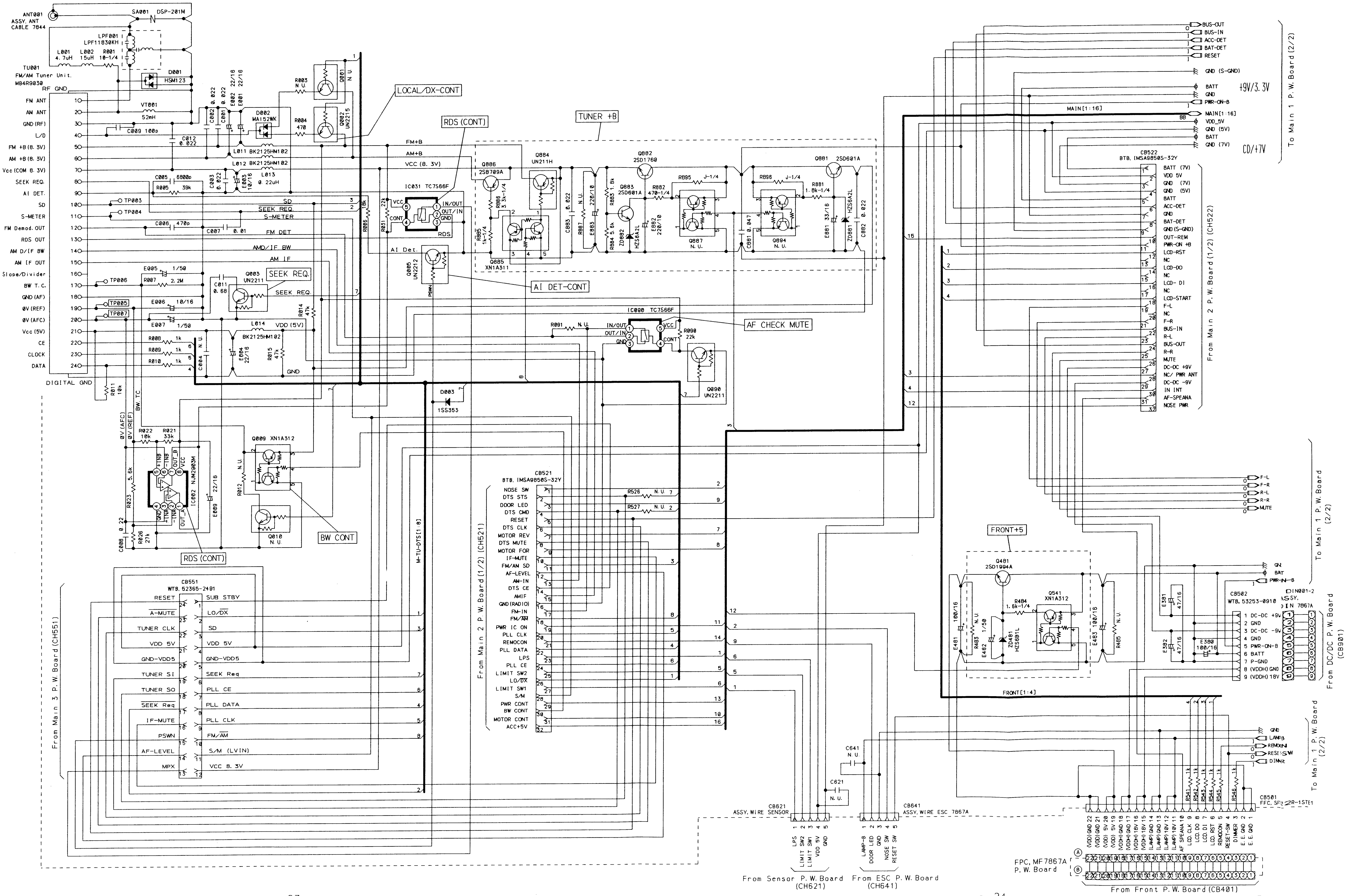
Parts Layout on P.W.Boards and Wiring Diagram (6/6)


1
2
3
4
5
HD1
PICKUP
①
⑯
M1
SPINDLE MOTOR
Ⓔ
M2
TRAVERSE MOTOR
RED
WHT
1 2
To CN4
CD Servo P.W.Board
(Component Side View)
CD Servo P.W.Board
(Foil Side View)
From FPC CD MECHA 7867A P.W.Board (Ⓓ)
26
To CN2
1
VJB62105-4
To CN3
1 4
16 1
To CN1
T.P.1
T.P.2
To CN5
1 5
IC1
IC2
IC3
IC4
IC5
CN1
CN2
CN3
CN4
CN5
X1
X2
Sensor P.W.Board
(Foil Side View)
⑤
Ⓕ
①
Q11
Q12
Q13
Q14

Dark Gray : Component Side Pattern
Gray : Foil Side Pattern

Schematic Diagram (1/9)

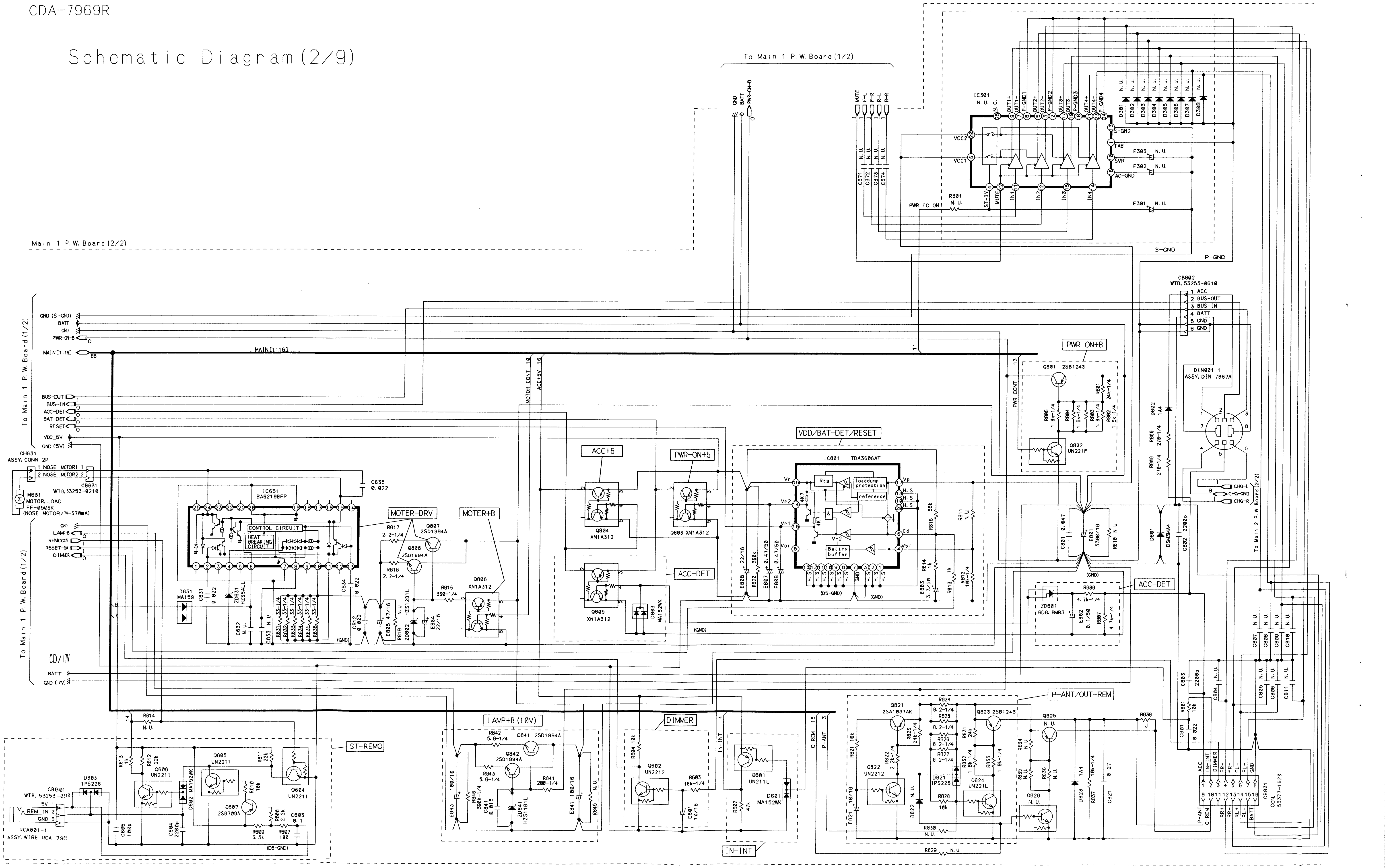
Main 1 P.W. Board (1/2)


ANT001
ASSY, ANT CABLE 7844
SA001 DSP-201M
LPF001 LPF11830KH
L001 4.7uH
L002 15uH
R001 10-1/4
TU001 FM/AM Tuner Unit. M84R9030
RF GND
D001 HSM123
VT001 52mH
C009 100p
C012 0.022
1 FM ANT
2 AM ANT
3 GND (RF)
4 L/D
5 FM +B (8.3V)
6 AM +B (8.3V)
7 Vcc (COM 8.3V)
8 SEEK REQ.
9 AI DET.
10 SD
11 S-METER
12 FM Demod. OUT
13 RDS OUT
14 AM D/IF BW
15 AM IF OUT
16 AIN Slope/Divider
17 BW T.C.
18 GND (AF)
19 0V (REF)
20 0V (AFC)
21 Vcc (5V)
22 CE
23 CLOCK
24 DATA
DIGITAL GND
TP003
TP004
TP006
TP005
TP007
C005 6800p
R005 39k
C006 470p
C007 0.01
C002 0.022
C001 0.022
E002 22/16
E001 22/16
D002 MA152WK
L011 BK2125HM102
L012 BK2125HM102
L013 0.22uH
C003 0.022
E003 10/16
R003 N.U.
R004 470
Q001 N.U.
Q002 UN2215
LOCAL/DX-CONT
RDS (CONT)
TUNER +B
FM+B
AM+B
VCC (8.3V)
SD
SEEK REQ.
S-METER
FM DET
AMD/IF BW
AM IF
AI Det.
IC031 TC7S66F
VCC
CONT
IN/OUT
OUT/IN
GND
RDS
R031 22k
R085 18k
Q005 UN2212
PSWN
AI DET-CONT
Q006 2SB709A
R086 3.3k-1/4
R085 1k-1/4
Q085 XN1A311
Q004 UN211H
C083 0.022
R087 N.U.
E083 220/10
R083 1.8k
R084 5.6k
Q083 2SD601A
ZD082 HZS6A2L
Q082 2SD1760
R082 470-1/4
E082 220/10
R095 J-1/4
Q087 N.U.
C081 0.047
R096 J-1/4
R081 1.8k-1/4
Q094 N.U.
Q081 2SD601A
E081 33/16
ZD081 HZS6A2L
C082 0.022
E005 1/50
R007 2.2M
C011 0.68
Q003 UN2211
SEEK REQ.
E006 10/16
E007 1/50
R014 47k
L014 BK2125HM102
VDD (5V)
R008 1k
R009 1k
R010 1k
C004 N.U.
E004 22/16
R015 47k
GND
R011 10k
BW TC
IC090 TC7S66F
R091 N.U.
IN/OUT
OUT/IN
GND
VCC
CONT
R090 22k
Q090 UN2211
AF CHECK MUTE
D003 1SS353
0V (AFC)
0V (REF)
R022 10k
R021 33k
5.6k
R023
IC002 NJM2903M
+INB
-INB
OUT_B
VCC
GND
+INA
-INA
OUT_A
E009 22/16
C008 0.22
R026 27k
RDS (CONT)
Q009 XN1A312
R012 N.U.
Q010 N.U.
BW CONT
M-TU-DTS[1:8]
CB551 WTB, 52365-2401
RESET
A-MUTE
TUNER CLK
VDD 5V
GND-VDD5
TUNER SI
TUNER SO
SEEK Req
IF-MUTE
PSWN
AF-LEVEL
MPX
SUB STBY
LO/DX
SD
VDD 5V
GND-VDD5
SEEK Req
PLL CE
PLL DATA
PLL CLK
FM/AM
S/M (LVIN)
VCC 8.3V
From Main 3 P.W. Board (CH551)
CB521 BTB, IMSA9850S-32Y
NOSE SW
DTS STS
DOOR LED
DTS CMD
RESET
DTS CLK
MOTOR REV
DTS MUTE
MOTOR FOR
IF-MUTE
FM/AM SD
AF-LEVEL
AM-IN
DTS CE
AMIF
GND (RADIO)
FM-IN
FM/AM
PWR IC ON
PLL CLK
REMOCON
PLL DATA
LPS
PLL CE
LIMIT SW2
LO/DX
LIMIT SW1
S/M
PWR CONT
BW CONT
MOTOR CONT
ACC+5V
From Main 2 P.W. Board (1/2) (CH521)
R526 N.U.
R527 N.U.
BUS-OUT
BUS-IN
ACC-DET
BAT-DET
RESET
GND (S-GND)
BATT
GND
PWR-ON-B
+9V/3.3V
MAIN[1:16]
VDD_5V
GND (5V)
BATT
GND (7V)
CD/+7V
To Main 1 P.W. Board (2/2)
CB522 BTB, IMSA9850S-32Y
BATT (7V)
VDD 5V
GND (7V)
GND (5V)
BATT
ACC-DET
GND
BAT-DET
GND (S-GND)
OUT-REM
PWR-ON +B
LCD-RST
NC
LCD-DO
NC
LCD-DI
NC
LCD-START
F-L
NC
F-R
BUS-IN
R-L
BUS-OUT
R-R
MUTE
DC-DC +9V
NC/PWR ANT
DC-DC -9V
IN INT
AF-SPEANA
NOSE PWR
From Main 2 P.W. Board (1/2) (CH522)
F-L
F-R
R-L
R-R
MUTE
To Main 1 P.W. Board (2/2)
FRONT+5
Q401 2SD1994A
R484 1.8k-1/4
Q541 XN1A312
E481 100/16
R483 N.U.
E482 1/50
ZD481 HZS8L
E483 100/16
R485 N.U.
E381 47/16
E382 47/16
E380 100/16
FRONT[1:4]
GN
BAT
PWR-N-B
CB502 WTB, 53253-0910
DIN001-2 ASSY, DIN 7867A
1 DC-DC +9V
2 GND
3 DC-DC -9V
4 GND
5 PWR-ON-B
6 BATT
7 P-GND
8 (VDDH) GND
9 (VDDH) 18V
From DC/DC P.W. Board (CB901)
GND
LAMPB
REMOCON
RESET SW
DIMMER
To Main 1 P.W. Board (2/2)
C641 N.U.
C621 N.U.
CB621 ASSY, WIRE SENSOR
LPS 1
LIMIT SW2 2
LIMIT SW1 3
VDD 5V 4
GND 5
From Sensor P.W. Board (CH621)
CB641 ASSY, WIRE ESC 7867A
LAMP-B 1
DOOR LED 2
GND 3
NOSE SW 4
RESET SW 5
From ESC P.W. Board (CH641)
R541 1k
R542 1k
R543 1k
R544 1k
R545 1k
R546 1k
CB501 FFC, SF22R-1STE1
(VDD) GND 22
(VDD) GND 21
(VDD) 5V 20
(VDD) 5V 19
(VDDH) GND 18
(VDDH) GND 17
(VDDH) 18V 16
(VDDH) 18V 15
(LAMP) GND 14
(LAMP) GND 13
(LAMP) 18V 12
(LAMP) 18V 11
AF SPEANA 10
LCD CLK 9
LCD DO 8
LCD DI 7
LCD RST 6
REMOCON 5
RESET-SW 4
DIMMER 3
E.E. GND 2
E.E. GND 1
FPC, MF7867A P.W. Board
From Front P.W. Board (CB401)

NOTE: N.U. is Not Used Parts.

CDA-7969R

Schematic Diagram (2/9)

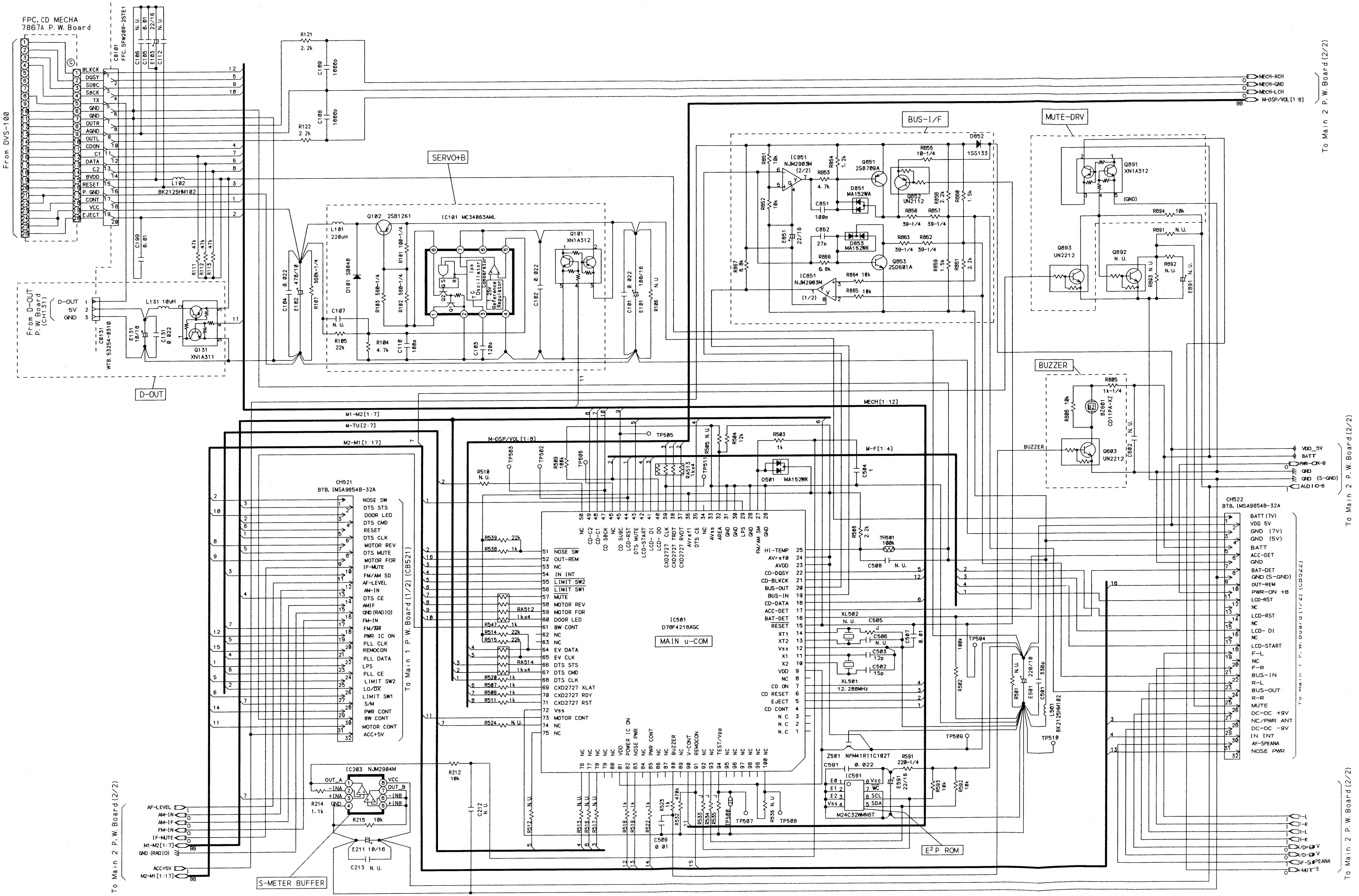


To Main 1 P.W. Board (1/2)
GND
BATT
PWR-ON-B
MUTE
F-L
F-R
R-L
R-R
IC301
N. U. C.
VCC2
VCC1
OUT1+
OUT1-
P-GND1
OUT2+
OUT2-
P-GND2
OUT3+
OUT3-
P-GND3
OUT4+
OUT4-
P-GND4
S-GND
TAB
SVR
AC-GND
ST-BY
MUTE
IN1
IN2
IN3
IN4
E303 N. U.
E302 N. U.
E301 N. U.
R301 N. U.
PWR IC ON
C371
C372
C373
C374
D301
D302
D303
D304
D305
D306
D307
D308
S-GND
P-GND
Main 1 P.W. Board (2/2)
CN802
WTB, 53253-0610
1 ACC
2 BUS-OUT
3 BUS-IN
4 BATT
5 GND
6 GND
DIN001-1
ASSY, DIN 7867A
GND (S-GND)
BATT
GND
PWR-ON-B
MAIN[1:16]
MAIN[1:16]
To Main 1 P.W. Board (1/2)
BUS-OUT
BUS-IN
ACC-DET
BAT-DET
RESET
VDD_5V
GND (5V)
CH631
ASSY, CONN 2P
1 NOSE MOTOR1 1
2 NOSE MOTOR2 2
CN631
WTB, 53253-0210
M631
MOTOR, LOAD
FF-050SK
(NOSE MOTOR/1V-370mA)
GND
LAMP+B
REMOCON
RESET-SW
DIMMER
To Main 1 P.W. Board (1/2)
CD/+7V
BATT
GND (7V)
MOTOR CONT 10
ACC+5V 16
PWR CONT 13
PWR ON+B
Q801 2SB1243
R801 24k-1/4
R802 1.8k-1/4
R803 1.8k-1/4
R804 1.8k-1/4
R805 1.8k-1/4
Q802 UN221F
D802 1A4
R809 270-1/4
R808 270-1/4
CHG-L
CHG-GND
CHG-R
To Main 2 P.W. Board (2/2)
VDD/BAT-DET/RESET
IC801 TDA3606AT
Reg
loaddump protection
reference
Battry buffer
Vp
H.S
Cd
Vbi
Vr
Vr2
Vr1
Voi
(D5-GND)
(GND)
E808 22/16
R820 360k
E807 0.47/50
E806 0.47/50
R815 56k
R811 1k
R814 1k
E803 3.3/50
R813 1k
R812 10k-1/4
C801 0.047
E801 3300/16
R810 N. U.
D801 DSM3MA4
C802 2200p
ACC+5
Q804 XN1A312
PWR-ON+5
Q803 XN1A312
ACC-DET
Q805 XN1A312
D803 MA152WK
ACC-DET
ZD801 RD6.8MB3
E802 0.1/50
R806 4.7k-1/4
R807 4.7k-1/4
IC631 BA6219BFP
CONTROL CIRCUIT
HEAT BREAKING CIRCUIT
C635 0.022
MOTER-DRV
R817 2.2-1/4
Q807 2SD1994A
Q808 2SD1994A
R818 2.2-1/4
MOTER+B
Q806 XN1A312
R816 390-1/4
D631 MA159
C631 0.022
ZD631 HZS5ALL
C632 N. U.
C633 N. U.
R631 33-1/4
R632 33-1/4
R633 33-1/4
R634 33-1/4
R635 33-1/4
R636 33-1/4
C634 0.022
C812 0.022
E805 47/16
R819 N. U.
ZD802 HZS12B1L
E804 22/16
(GND)
C807
C808
C809
C810
N. U.
C803 2200p
C804 N. U.
C805
C806
C811
R614 N. U.
ST-REMO
R613
R612 22k
Q606 UN2211
Q605 UN2211
D602 MA152WK
R610 10k
R611 22k
Q604 UN2211
Q607 2SB709A
R608 2.2k
C603 0.1
R609 3.3k
R607 100
(D5-GND)
CN601
WTB, 53253-0310
5V 1
REM IN 2
GND 3
D603 1PS226
C605 100p
C604 2200p
RCA001-1
ASSY, WIRE RCA 7969
LAMP+B (10V)
R842 5.6-1/4
Q841 2SD1994A
Q842 2SD1994A
R843 5.6-1/4
R841 200-1/4
E843 100/16
R846 390k-1/4
C841 0.015
ZD841 HZS18B1L
E841 100/16
R845 N. U.
DIMMER
R604 10k
Q602 UN2212
R603 10k-1/4
E601 10/16
IN-INT
Q601 UN211L
D601 MA152WK
R602 47k
IN-INT
O-REM 15
P-ANT 3
P-ANT/OUT-REM
Q821 2SA1037AK
R824 8.2-1/4
R825 8.2-1/4
R826 8.2-1/4
R827 8.2-1/4
R823 24k-1/4
Q823 2SB1243
R831 24k
R821 10k
Q822 UN2212
R822 24k-1/4
D821 1PS226
R832 1.8k-1/4
R833 1.8k-1/4
Q824 UN221L
R828 10k
D822 N. U.
E821 10/16
R830 N. U.
R829 N. U.
R834 N. U.
Q825 N. U.
R835 N. U.
R836 N. U.
Q826 N. U.
D823 1A4
R837 10k-1/4
C821 0.27
R838 J
R801 10k
C801 0.022
ACC
IN-INT
DIMMER
FR+
FR-
FL+
FL-
GND
P-ANT
O-REM
RR+
RR-
RL+
RL-
BATT
CN801
53377-1620

NOTE: N. U. is Not Used Parts.

Schematic Diagram (3/9)

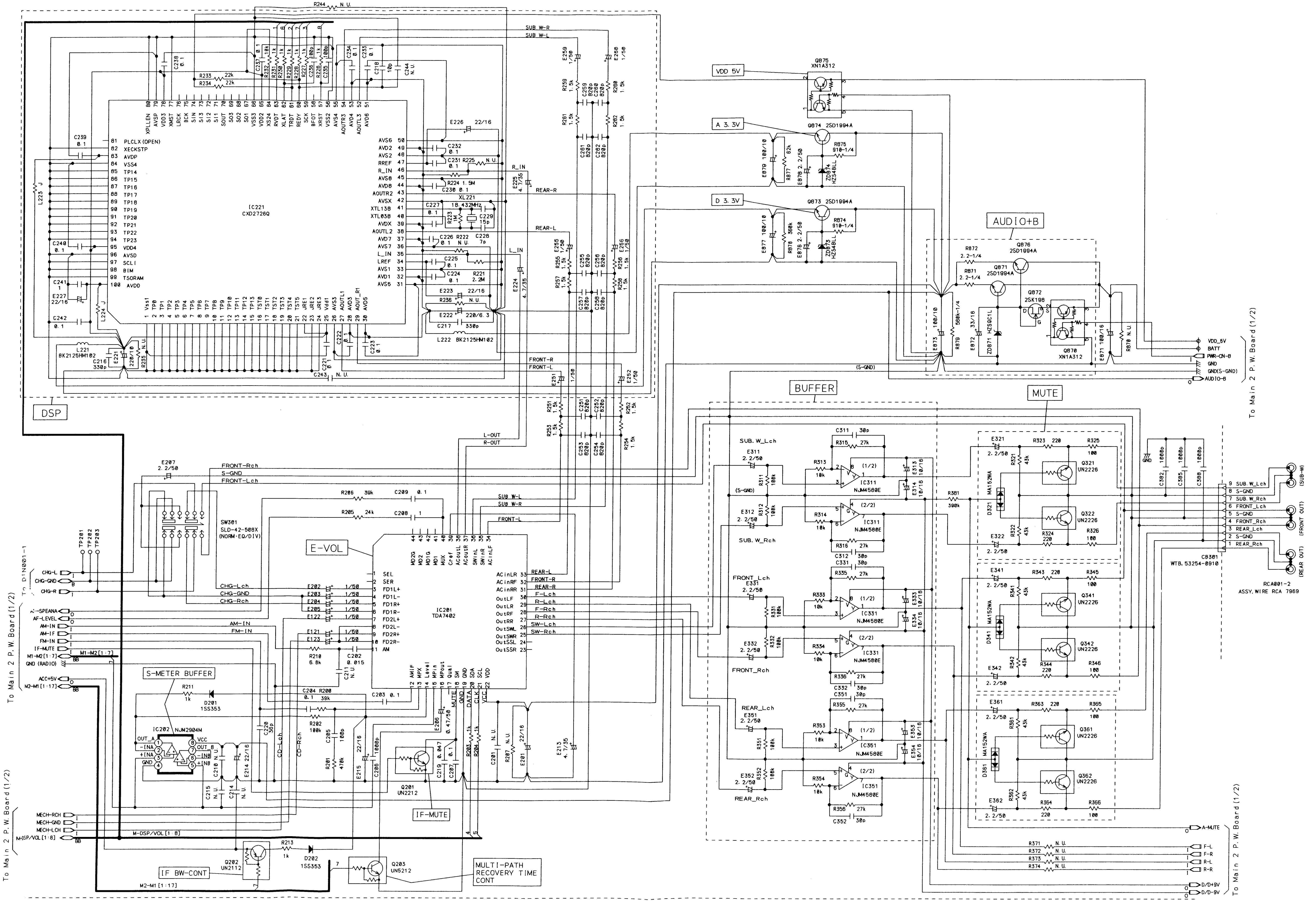
Main 2 P.W. Board (1/2)


FPC, CD MECHA
7867A P.W. Board
From DVS-100
CB101
FFC. SFW20R-2STE1
BLKCK
DQSY
SUBC
SBCK
TX
GND
GND
OUTR
AGND
OUTL
CDON
C1
DATA
C2
BVDD
RESET
P.GND
CONT
VCC
EJECT
C106 N.U.
C105 0.01
E103 22/16
C112 N.U.
L102
BK2125HM102
C109 0.01
R111 47k
R112 47k
R113 47k
From D-OUT P.W. Board (CH131)
D-OUT
5V
GND
CB131
WTB.53254-0310
L131 10uH
E131 10/16
C131 0.022
Q131
XN1A311
D-OUT
R121
2.2k
C109 1000p
C108 1000p
R122
2.2k
SERVO+B
L101
220uH
Q102 2SB1261
IC101 MC34063AML
Q101
XN1A312
C104 0.022
E102 470/10
R107 560k-1/4
D101 SB040
C107 N.U.
R105 22k
R103 560-1/4
R102 560-1/4
R101 100-1/4
R104 4.7k
C110 100p
C103 120p
C102 0.022
C101 0.022
E101 100/16
R106 N.U.
Ipk Oscillator
Comparator
1.25V Reference Regulator
BUS-I/F
D852
1SS133
IC851
NJM2903M
(2/2)
R851 10k
R852 10k
R853 4.7k
R854 1.2k
Q851
2SB709A
R855 10-1/4
Q852
UN2112
D851
MA152WA
C851 100p
R856 39-1/4
R857 39-1/4
R858 2.2k
R860 1.5k
E851 22/16
C852 27p
D853
MA152WK
R863 39-1/4
R862 39-1/4
R866 6.8k
Q853
2SD601A
R867 6.8k
IC851
NJM2903M
(1/2)
R864 10k
R865 10k
R859 1.5k
R861 2.2k
MUTE-DRV
Q891
XN1A312
(GND)
R894 10k
R891 N.U.
Q893
UN2212
Q892
N.U.
R892 N.U.
R893 N.U.
E891 N.U.
MECH-RCH
MECH-GND
MECH-LCH
M-DSP/VOL[1:8]
To Main 2 P.W. Board (2/2)
BUZZER
R805 1k-1/4
R808 10k
BZ601
CD11PA-XZ
C602 N.U.
BUZZER
Q603
UN2212
VDD 5V
BATT
PWR-ON-B
GND
GND (S-GND)
AUDIO-B
To Main 2 P.W. Board (2/2)
MECH[1:12]
M1-M2[1:7]
M-TU[2:7]
M2-M1[1:17]
M-DSP/VOL[1:8]
TP505
TP503
TP502
R509 100k
TP506
R510 N.U.
R505 N.U.
R504 12k
R503 1k
M-F[1:4]
RA513 1kx4
TP511
D501 MA152WK
C504 1
CH521
BTB. IMSA9854B-32A
NOSE SW
DTS STS
DOOR LED
DTS CMD
RESET
DTS CLK
MOTOR REV
DTS MUTE
MOTOR FOR
IF-MUTE
FM/AM SD
AF-LEVEL
AM-IN
DTS CE
AMIF
GND (RADIO)
FM-IN
FM/AM
PWR IC ON
PLL CLK
REMOCON
PLL DATA
LPS
PLL CE
LIMIT SW2
LO/DX
LIMIT SW1
S/M
PWR CONT
BW CONT
MOTOR CONT
ACC+5V
To Main 1 P.W. Board (1/2) (CB521)
R539 22k
R538 1k
RA512 1kx4
R547 1k
R514 22k
R515 22k
RA514 1kx4
R520 1k
R507 1k
R508 1k
R511 1k
R524 N.U.
IC501
D78F4218AGC
MAIN u-COM
51 NOSE SW
52 OUT-REM
53 NC
54 IN INT
55 LIMIT SW2
56 LIMIT SW1
57 MUTE
58 MOTOR REV
59 MOTOR FOR
60 DOOR LED
61 BW CONT
62 NC
63 NC
64 EV DATA
65 EV CLK
66 DTS STS
67 DTS CMD
68 DTS CLK
69 CXD2727 XLAT
70 CXD2727 RDY
71 CXD2727 RST
72 Vss
73 MOTOR CONT
74 NC
75 NC
50 NC
49 CD-C2
48 CD-C1
47 CD SBCK
46 NC
45 CD SUBC
44 LCD-RST
43 DTS MUTE
42 LCD-START
41 LCD- DI
40 LCD- DO
39 CXD2727 CLK
38 CXD2727 TRDT
37 CXD2727 RVDT
36 AVref1
35 DTS CE
34 NC
33 AVss
32 AREA
31 GND
30 GND
29 LPS
28 FM/AM SM
27 GND
26 GND
25 HI-TEMP
24 AVref0
23 AVDD
22 CD-DQSY
21 CD-BLKCK
20 BUS-OUT
19 BUS-IN
18 CD-DATA
17 ACC-DET
16 BAT-DET
15 RESET
14 XT1
13 XT2
12 Vss
11 X1
10 X2
9 VDD
8 NC
7 CD ON
6 CD RESET
5 EJECT
4 CD CONT
3 N.C
2 N.C
1 N.C
76 NC
77 NC
78 NC
79 NC
80 VDD
81 POWER IC ON
82 NOSE PWR
83 NC
84 PWR CONT
85 NC
86 NC
87 BUZZER
88 NC
89 V-CONT
90 REMOCON
91 NC
92 NC
93 TEST/Vpp
94 NC
95 NC
96 NC
97 NC
98 NC
99 NC
100 NC
R506 2.2k
TH501 100k
C508 N.U.
XL502
N.U.
C505
C506 N.U.
C507 0.01
C503 12p
C502 15p
XL501
12.288MHz
R500 100k
TP504
R502
R501 N.U.
E501 220/10
C501 330p
L501
BK2125HM102
TP509
TP510
Z501 NFM41R11C102T
C591 0.022
R591 220-1/4
IC591
E0
E1
E2
Vss
Vcc
WC
SCL
SDA
M24C32WMN6T
E591 22/16
R593 10k
R592 10k
E²P ROM
R512 N.U.
R513 N.U.
R516 N.U.
R517 N.U.
R518 1k
R519 1k
R522 1k
R523 1k
R532 470k
C509 0.01
R533 J
R534 J
R535 J
TP500
TP507
R536 N.U.
TP508
IC203 NJM2904M
OUT_A
-INA
+INA
GND
VCC
OUT_B
-INB
+INB
R212 10k
C212 N.U.
R214 1.1k
R215 10k
E211 10/16
C213 N.U.
S-METER BUFFER
AF-LEVEL
AM-IN
AM-IF
FM-IN
IF-MUTE
M1-M2[1:7]
GND (RADIO)
ACC+5V
M2-M1[1:17]
To Main 2 P.W. Board (2/2)
CH522
BTB. IMSA9854B-32A
BATT (7V)
VDD 5V
GND (7V)
GND (5V)
BATT
ACC-DET
GND
BAT-DET
GND (S-GND)
OUT-REM
PWR-ON +B
LCD-RST
NC
LCD-RST
NC
LCD- DI
NC
LCD-START
F-L
NC
F-R
BUS-IN
R-L
BUS-OUT
R-R
MUTE
DC-DC +9V
NC/PWR ANT
DC-DC -9V
IN INT
AF-SPEANA
NOSE PWR
To Main 1 P.W. Board (1/2) (CB522)
F-L
F-R
R-L
R-R
DD+V
DD-V
AF-SPEANA
MUTE
To Main 2 P.W. Board (2/2)

NOTE: N. U. is Not Used Parts.

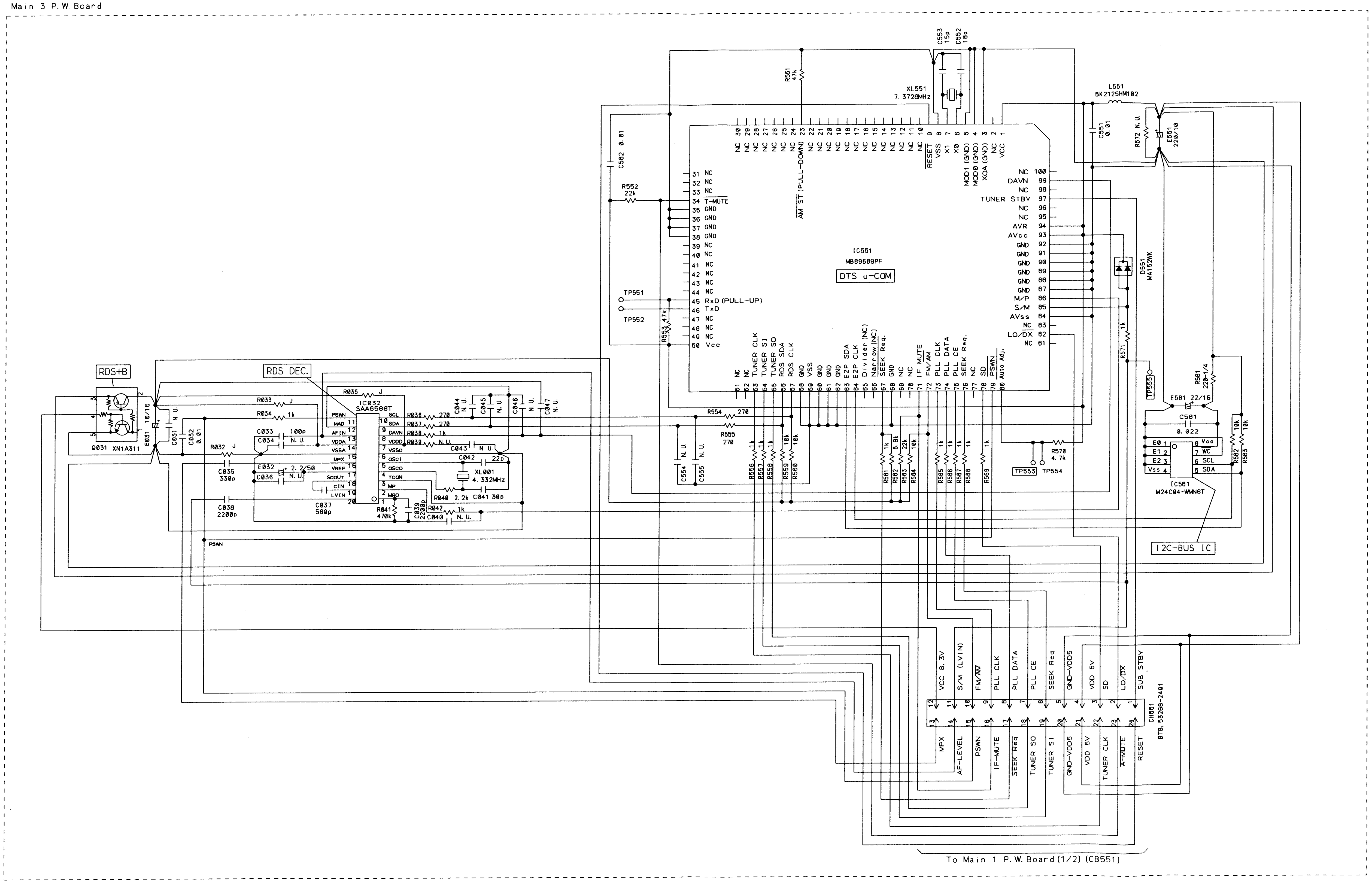
CDA-7969R
Main 2 P.W. Board (2/2)

Schematic Diagram (4/9)


DSP
IC221
CXD2726Q
XL221
18.432MHz
SUB W-R
SUB W-L
R_IN
REAR-R
REAR-L
L_IN
FRONT-R
FRONT-L
L-OUT
R-OUT
VDD 5V
A 3.3V
D 3.3V
Q875
XN1A312
Q874 2SD1994A
Q873 2SD1994A
AUDIO+B
Q876
2SD1994A
Q871
2SD1994A
Q872
2SK198
Q870
XN1A312
VDD_5V
BATT
PWR-ON-B
GND
GND(S-GND)
AUDIO-B
To Main 2 P.W. Board (1/2)
BUFFER
MUTE
IC311
NJM4580E
IC331
NJM4580E
IC351
NJM4580E
SUB. W_Lch
SUB. W_Rch
FRONT_Lch
FRONT_Rch
REAR_Lch
REAR_Rch
Q321
UN2226
Q322
UN2226
Q341
UN2226
Q342
UN2226
Q361
UN2226
Q362
UN2226
D321 MA152WA
D341 MA152WA
D361 MA152WA
CB301
WTB.53254-0910
RCA001-2
ASSY. WIRE RCA 7969
(SUB-W)
(FRONT OUT)
(REAR OUT)
9 SUB.W_Lch
8 S-GND
7 SUB.W_Rch
6 FRONT_Lch
5 S-GND
4 FRONT_Rch
3 REAR_Lch
2 S-GND
1 REAR_Rch
A-MUTE
F-L
F-R
R-L
R-R
D/D+9V
D/D-9V
E-VOL
IC201
TDA7402
SW301
SLD-42-508X
(NORM·EQ/DIV)
TP201
TP202
TP203
To D1N001-1
CHG-L
CHG-GND
CHG-R
A-SPEANA
AF-LEVEL
AM-IN
AM-IF
FM-IN
IF-MUTE
M1-M2[1:7]
GND (RADIO)
ACC+5V
M2-M1[1:17]
MECH-RCH
MECH-GND
MECH-LCH
M-DSP/VOL[1:8]
To Main 2 P.W. Board (1/2)
S-METER BUFFER
IC202 NJM2904M
D201
1SS353
IF-MUTE
Q201
UN2212
Q202
UN2112
D202
1SS353
IF BW-CONT
Q203
UN5212
MULTI-PATH
RECOVERY TIME
CONT
M2-M1[1:17]

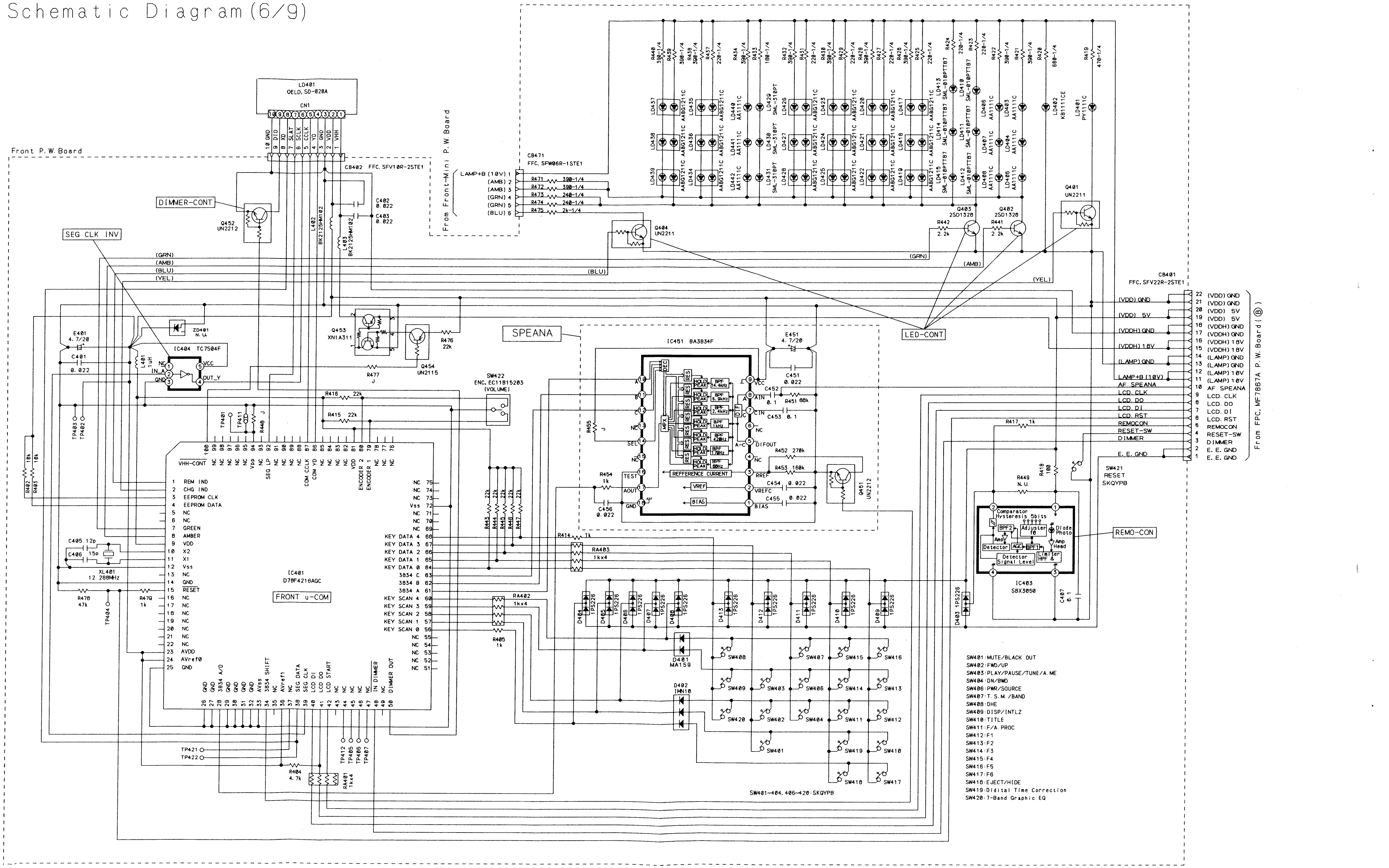
NOTE: N.U. is Not Used Parts.

Schematic Diagram (5/9)


Main 3 P.W. Board
IC551
MB89689PF
DTS u-COM
IC032
SAA6588T
RDS DEC.
RDS+B
Q031 XN1A311
XL551
7.3728MHz
XL001
4.332MHz
L551
BK2125HM102
D551
MA152WK
IC581
M24C04-WMN6T
I2C-BUS IC
TP551
TP552
TP553
TP554
CN551
BT8.53268-2491
VCC 8.3V
S/M (LVIN)
FM/AM
PLL CLK
PLL DATA
PLL CE
SEEK Req
GND-VDD5
VDD 5V
SD
LO/DX
SUB STBY
MPX
AF-LEVEL
PSWN
IF-MUTE
SEEK Req
TUNER SO
TUNER SI
GND-VDD5
VDD 5V
TUNER CLK
X-MUTE
RESET
To Main 1 P.W. Board (1/2) (CB551)

NOTE : N. U. is Not Used Parts.

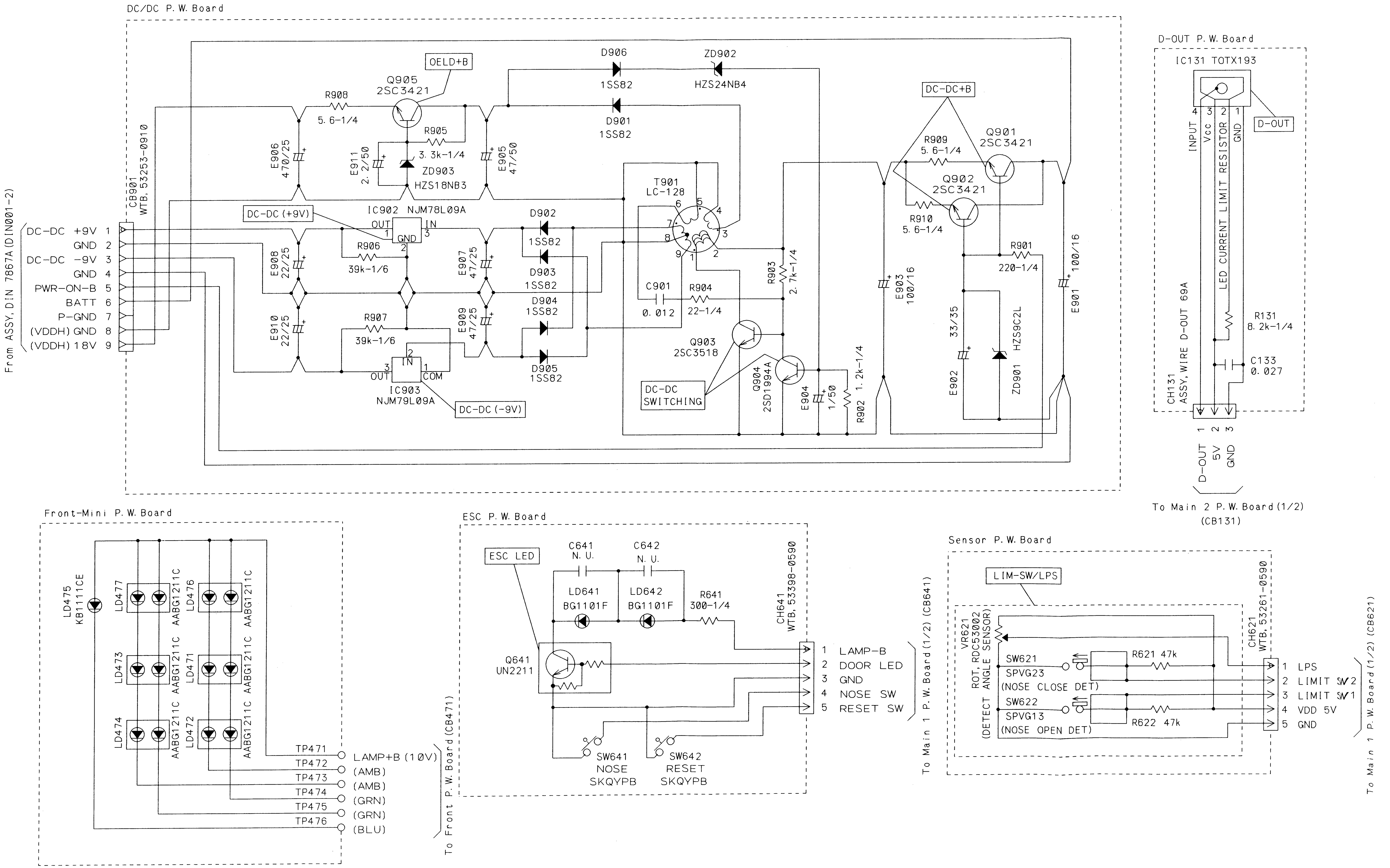
Schematic Diagram (6/9)


Front P. W. Board
LD401 OELD, SD-020A
CN1
CB402 FFC, SFV10R-2STE1
CB471 FFC, SFW06R-1STE1
From Front-Mini P. W Board
LAMP+B (10V) 1
(AMB) 2
(AMB) 3
(GRN) 4
(GRN) 5
(BLU) 6
DIMMER-CONT
SEG CLK INV
SPEANA
LED-CONT
REMO-CON
Q452 UN2212
Q453 XN1A311
Q454 UN2115
Q404 UN2211
Q403 2SD1328
Q402 2SD1328
Q401 UN2211
Q451 UN2212
IC404 TC7S04F
ZD401 N. U.
E401 4. 7/20
C401 0. 022
L401 1uH
L402 BK2125HM102
L403 BK2125HM102
C402 0. 022
C403 0. 022
SW422 ENC, EC11B15203 (VOLUME)
SW421 RESET SKQYPB
IC451 BA3834F
E451 4. 7/20
C451 0. 022
HOLD PEAK
BPF 14. 4kHz
BPF 5. 9kHz
BPF 2. 4kHz
BPF 1kHz
BPF 420Hz
BPF 170Hz
BPF 68Hz
REFFERENCE CURRENT
VREF
BIAS
IC401 D78F4216AGC
FRONT u-COM
XL401 12 288MHz
C405 12p
C406 15p
R478 47k
R479 1k
R404 4. 7k
RA401 1kx4
RA402 1kx4
RA403 1kx4
R405 1k
R414 1k
IC403 S8X3050
Comparator Hysteresis 5bits
BPF2
Adjuster f0
Diode Photo
Amp
Detector
AGC
BPF1
Amp Head
Detector Signal Level
Limiter HPF &
C407 0. 1
R449 N. U.
R418 100
R417 1k
D401 MA159
D402 IMN10
D403 1PS226
SW401-404, 406-420: SKQYPB
CB401 FFC, SFV22R-2STE1
22 (VDD) GND
21 (VDD) GND
20 (VDD) 5V
19 (VDD) 5V
18 (VDDH) GND
17 (VDDH) GND
16 (VDDH) 18V
15 (VDDH) 18V
14 (LAMP) GND
13 (LAMP) GND
12 (LAMP) 10V
11 (LAMP) 10V
10 AF SPEANA
9 LCD. CLK
8 LCD. DO
7 LCD. DI
6 LCD. RST
5 REMOCON
4 RESET-SW
3 DIMMER
2 E. E. GND
1 E. E. GND
From FPC, MF7867A P. W. Board (B)

SW401:MUTE/BLACK OUT
SW402:FWD/UP
SW403:PLAY/PAUSE/TUNE/A. ME
SW404:DN/BWD
SW406:PWR/SOURCE
SW407:T. S. M. /BAND
SW408:DHE
SW409:DISP/INTLZ
SW410:TITLE
SW411:F/A. PROC
SW412:F1
SW413:F2
SW414:F3
SW415:F4
SW416:F5
SW417:F6
SW418:EJECT/HIDE
SW419:Didital Time Correction
SW420:7-Band Graphic EQ

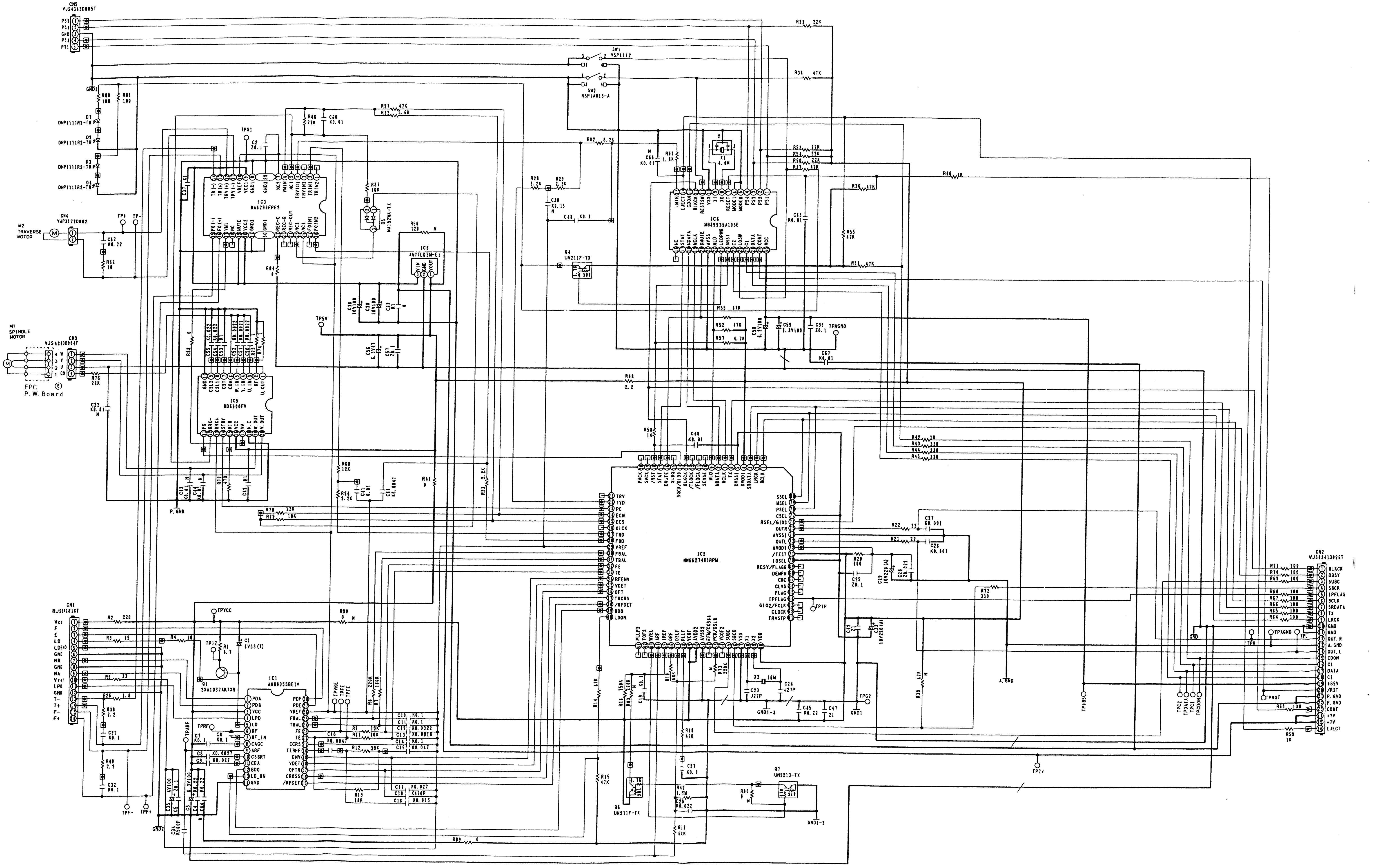
NOTE: N. U. is Not Used Parts.

Schematic Diagram (7/9)


DC/DC P. W. Board
From ASSY, DIN 7867A (DIN001-2)
CB901
WTB, 53253-0910
DC-DC +9V 1
GND 2
DC-DC -9V 3
GND 4
PWR-ON-B 5
BATT 6
P-GND 7
(VDDH) GND 8
(VDDH) 18V 9
OELD+B
Q905
2SC3421
R908
5. 6-1/4
R905
3. 3k-1/4
E906
470/25
E911
2. 2/50
ZD903
HZS18NB3
E905
47/50
D906
1SS82
ZD902
HZS24NB4
D901
1SS82
DC-DC (+9V)
IC902 NJM78L09A
OUT
IN
GND
R906
39k-1/6
E908
22/25
E907
47/25
D902
1SS82
D903
1SS82
D904
1SS82
D905
1SS82
E910
22/25
R907
39k-1/6
E909
47/25
IC903
NJM79L09A
COM
DC-DC (-9V)
T901
LC-128
C901
0. 012
R904
22-1/4
R903
2. 7k-1/4
Q903
2SC3518
Q904
2SD1994A
DC-DC SWITCHING
E904
1/50
R902
1. 2k-1/4
E903
100/16
DC-DC+B
R909
5. 6-1/4
Q901
2SC3421
Q902
2SC3421
R910
5. 6-1/4
R901
220-1/4
E902
33/35
ZD901
HZS9C2L
E901
100/16
D-OUT P. W. Board
IC131 TOTX193
4 3 2 1
INPUT
Vcc
LED CURRENT LIMIT RESISTOR
GND
D-OUT
R131
8. 2k-1/4
C133
0. 027
CH131
ASSY, WIRE D-OUT 69A
1 D-OUT
2 5V
3 GND
To Main 2 P. W. Board (1/2) (CB131)
Front-Mini P. W. Board
LD475
KB1111CE
LD477
AABG1211C
LD476
AABG1211C
LD473
AABG1211C
LD471
AABG1211C
LD474
AABG1211C
LD472
AABG1211C
TP471 LAMP+B (10V)
TP472 (AMB)
TP473 (AMB)
TP474 (GRN)
TP475 (GRN)
TP476 (BLU)
To Front P. W. Board (CB471)
ESC P. W. Board
ESC LED
C641
N. U.
C642
N. U.
LD641
BG1101F
LD642
BG1101F
R641
300-1/4
Q641
UN2211
CH641
WTB, 53398-0590
1 LAMP-B
2 DOOR LED
3 GND
4 NOSE SW
5 RESET SW
SW641
NOSE
SKQYPB
SW642
RESET
SKQYPB
To Main 1 P. W. Board (1/2) (CB641)
Sensor P. W. Board
LIM-SW/LPS
VR621
ROT, RDC53002
(DETECT ANGLE SENSOR)
SW621
SPVG23
(NOSE CLOSE DET)
SW622
SPVG13
(NOSE OPEN DET)
R621 47k
R622 47k
CH621
WTB, 53261-0590
1 LPS
2 LIMIT SW2
3 LIMIT SW1
4 VDD 5V
5 GND
To Main 1 P. W. Board (1/2) (CB621)

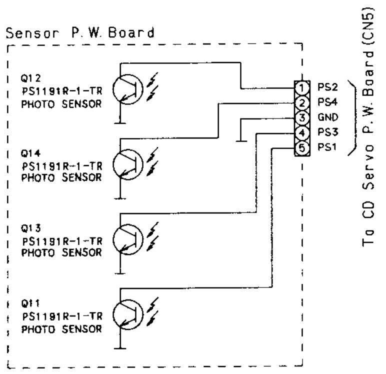
CDA-7969R

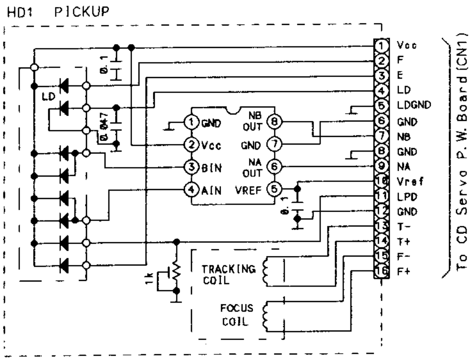
Schematic Diagram (8/9)



CN5
VJS4342D005T
PS2
PS4
GND
PS3
PS1
SW1
VSP1112
SW2
RSP1A015-A
GND3
R80 100
R81 100
D1 DNP1111R2-TR
D2 DNP1111R2-TR
D3 DNP1111R2-TR
D4 DNP1111R2-TR
CN4
VJP3172D002
M2
TRAVERSE
MOTOR
TP+
TP-
C62 K0.22
R62 10
TPG1
IC3
BA6299FPE2
R86 22K
C60 K0.01
R27 47K
R32 5.6K
R87 10K
D5 MA152WK-TX
R56 120
IC6
AN77L05M-E1
VIN
GND
VOUT
TP5V
M1
SPINDLE
MOTOR
CN3
VJS4213D004T
FPC
P.W. Board
R76 22K
C22 K0.01
IC5
BD6600FV
P.GND
R60 12K
R24 2.2K
C41 0.01
C61 K0.0047
R41 0
R23 2.2K
R78 22K
R79 10K
R28 2.2K
R29 2.2K
C30 K0.15
C48 K0.1
Q4
UN211F-TX
R82 8.2K
C66 K0.01
R51 1.8K
X1 4.0M
IC4
MN89935A103E
R53 22K
R54 22K
R50 22K
R37 47K
R33 22K
R34 47K
R46 1K
R36 47K
R55 47K
R31 47K
C65 K0.01
R35 47K
R52 47K
R57 4.7K
C58 6.3V100
C59 6.3V100
C39 Z0.1
TPMGND
C67 K0.01
R48 2.2
R58 1K
C46 K0.01
R42 1K
R43 330
R44 330
R45 330
IC2
MN6627481RPM
R22 22
R21 22
C27 K0.001
C26 K0.001
R20 100
C25 Z0.1
R72 330
TP1P
CN2
VJS4341D026T
BLKCK
DQSY
SUBC
SBCK
IPFLAG
BCLK
SRDATA
TX
LRCK
GND
OUT.R
A.GND
OUT.L
COOM
C1
DATA
C2
+BSY
/RST
P.GND
CONT
+7V
EJECT
R71 100
R70 100
R69 100
R68 100
R67 100
R66 100
R65 100
R64 100
R63 330
R59 1K
TPAGND
TPL
TPR
TPRST
A.GND
TPABS
TPC2
TPDATA
TPC1
TPCOON
TP7V
X2 16M
C23 J27P
C24 J27P
GND1-3
C45 K0.22
C47 Z1
TPG2
GND1
R10 470
C21 K0.1
R61 1.5M
C20 K0.022
R17 61K
Q7
UN2213-TX
R85 0
GND1-2
R11 47K
R15 47K
Q6
UN211F-TX
R16 150K
R83 270K
R89 0
CN1
RJS1A181GT
Vcc
F
E
LD
LDGND
GND
MB
GND
MA
Vref
LPD
GND
T-
T+
F-
F+
R2 220
R3 15
R4 10
R5 33
R26 1.8
R38 2.2
C31 K0.1
R40 2.2
C32 K0.1
TPF-
TPF+
TPVCC
TP1Z
R1 4.7
C1 6V33(T)
Q1
2SA1037AKTXR
IC1
AN8835SBE1V
TPARF
TPRF
C7 K0.1
C6 K0.1
C8 K0.0027
C3 K0.027
C34 K560P
GND2
R90 0
TPVRE
TPFE
TPTE
C10 K0.1
C11 K0.1
C12 K0.0022
C13 K0.0018
C14 K0.1
C15 K0.047
C17 K0.027
C18 K470P
C16 K0.015
R9 10K
R11 10K
R12 39K
R13 18K
C40 K0.0047

Schematic Diagram (9/9)


Sensor P. W. Board
Q12
PS1191R-1-TR
PHOTO SENSOR
Q14
PS1191R-1-TR
PHOTO SENSOR
Q13
PS1191R-1-TR
PHOTO SENSOR
Q11
PS1191R-1-TR
PHOTO SENSOR
1 PS2
2 PS4
3 GND
4 PS3
5 PS1
To CD Servo P. W. Board (CN5)


HD1 PICKUP
LD
0.1
0.047
1 GND
2 Vcc
3 BIN
4 AIN
NB OUT 8
GND 7
NA OUT 6
VREF 5
0.1
1k
TRACKING COIL
FOCUS COIL
1 Vcc
2 F
3 E
4 LD
5 LDGND
6 GND
7 NB
8 GND
9 NA
10 Vref
11 LPD
12 GND
13 T-
14 T+
15 F-
16 F+
To CD Servo P. W. Board (CN1)

Terminal Voltage of IC/TR

IC002	
1	8.23
2	4.16
3	4.78
4	0
5	5.73
6	4.78
7	8.23
8	8.25

IC031	
1	4.89
2	4.89
3	0
4	8.23
5	8.23

IC032			
1	0	11	0
2	0	12	0
3	0	13	2.51
4	PS	14	5.05
5	PS	15	0
6	0	16	2.51
7	5.06	17	2.51
8	5.03	18	2.51
9	PS	19	2.51
10	PS	20	2.51

IC090		
1	2.97/0	Normal/FM SEEK
2	2.99	
3	0	
4	8.28/0	Normal/FM SEEK
5	8.3	

IC101		
1	14.40/12.75	RADIO/CD
2	0	
3	0/0.66	RADIO/CD
4	0	
5	0.18/1.25	RADIO/CD
6	0/14.37	RADIO/CD
7	0/14.37	RADIO/CD
8	14.40/12.73	RADIO/CD

IC131		
1	0	CD PLAY
2	2.27	
3	4.99	
4	2.55	

IC201									
1	NC		12	4.35	AM	23	NC	34	4.37
2	NC		13	4.33	FM	24	NC	35	4.37
3	4.29	CHG	14	4.35	↑	25	4.38	36	4.37
4	4.29	↑	15	0		26	4.38	37	4.39
5	4.3	↑	16	4.28		27	4.38	38	4.39
6	4.3	↑	17	NC		28	4.38	39	4.38
7	4.31	CD	18	3.63		29	4.38	40	4.39
8	4.34	↑	19	0		30	4.38	41	NC
9	4.32	↑	20	PS		31	4.37	42	NC
10	4.34	↑	21	PS		32	4.37	43	NC
11	4.32	AM	22	8.8		33	4.37	44	NC

IC202	
1	4.67
2	4.67
3	4.67
4	0
5	4.67
6	4.67
7	4.67
8	8.79

IC203	
1	0~4.55
2	0~4.55
3	0~4.55
4	0
5	4.71
6	4.71
7	4.71
8	8.85

IC221									
1	0	21	0	41	PS	61	PS	81	NC
2	0	22	3.56	42	0	62	PS	82	0
3	0	23	0	43	1.59	63	PS	83	3.56
4	0	24	0	44	3.54	64	3.56	84	0
5	0	25	2.56	45	0	65	3.56	85	0
6	0	26	0	46	1.76	66	0	86	0
7	0	27	1.59	47	1.72	67	NC	87	0
8	0	28	3.54	48	0	68	NC	88	0
9	0	29	1.59	49	3.54	69	NC	89	0
10	0	30	3.54	50	0	70	NC	90	0
11	0	31	0	51	3.54	71	NC	91	0
12	0	32	3.54	52	1.59	72	NC	92	0
13	0	33	0	53	3.54	73	NC	93	0
14	0	34	1.72	54	1.59	74	NC	94	0
15	0	35	1.69	55	0	75	NC	95	3.56
16	0	36	0	56	0	76	NC	96	0
17	0	37	3.54	57	PS	77	0	97	0
18	0	38	1.59	58	NC	78	3.56	98	0
19	0	39	3.54	59	PS	79	0	99	0
20	0	40	PS	60	PS	80	0	100	3.56

IC311	
1	0
2	0
3	0
4	-8.89
5	0
6	0
7	0
8	8.83

IC331	
1	0
2	0
3	0
4	-8.89
5	0
6	0
7	0
8	8.83

IC351	
1	0
2	0
3	0
4	-8.89
5	0
6	0
7	0
8	8.83

IC403		
1	5.14	Remocon Active
2	PS	▼
3	0	
4	0	

IC404	
1	NC
2	PS
3	0
4	PS
5	5.14

IC451			
1	2.59	10	PS
2	1.58	11	PS
3	2.62	12	PS
4	NC	13	NC
5	NC	14	5.14
6	NC	15	NC
7	2.59	16	0
8	2.59	17	PS
9	5.14	18	0

IC401					
1	5.06/PS	Normal/Key Push	51	NC	
2	5.06/0	CHG Connect/No Connect	52	NC	
3	5.05		53	NC	
4	5.05		54	NC	
5	NC		55	NC	
6	NC		56	PS	
7	4.95/0	GRN/AMB	57	PS	
8	0/4.95	GRN/AMB	58	PS	
9	5.13		59	PS	
10	PS		60	PS	
11	PS		61	PS	
12	0		62	PS	
13	NC		63	PS	
14	0		64	PS	
15	4.85		65	PS	
16	NC		66	PS	
17	NC		67	PS	
18	NC		68	PS	
19	NC		69	NC	
20	NC		70	NC	
21	NC		71	NC	
22	NC		72	0	
23	5.13		73	NC	
24	5.13		74	NC	
25	0		75	NC	
26	0		76	NC	
27	0		77	NC	
28	PS		78	NC	
29	0		79	PS	
30	0		80	PS	
31	0		81	5.14	
32	0		82	NC	
33	0		83	NC	
34	PS		84	NC	
35	NC		85	NC	
36	5.13		86	PS	
37	NC		87	PS	
38	PS		88	NC	
39	PS		89	NC	
40	PS		90	NC	
41	PS		91	NC	
42	PS		92	PS	
43	NC		93	NC	
44	NC		94	0	
45	NC		95	NC	
46	NC		96	NC	
47	NC		97	NC	
48	4.90/0	DIMMER OFF/ON	98	NC	
49	NC		99	NC	
50	0/5.11	DIMMER OFF/ON	100	2.80/0	PWR OFF/ON

IC501					
1	NC		51	4.99/0	NOSE SW OFF/ON
2	NC		52	4.95/0	PWR ON/OFF
3	NC		53	NC	
4	4.99/0	CD/RADIO	54	0/4.88	IN-INT OFF/ON
5	4.97		55	4.97/0	NOSE CLOSE/OPEN
6	4.99		56	0/4.97	NOSE CLOSE/OPEN
7	0/4.99	CD/RADIO	57	4.59/0.20	MUTE OFF/ON
8	NC		58	0/4.47	Normal/NOSE OPEN
9	4.99		59	0/4.46	Normal/NOSE CLOSE
10	PS		60	0/4.54	Normal/LOADING or EJECT
11	PS		61	0	
12	0		62	NC	
13	NC		63	NC	
14	NC		64	PS	
15	4.98		65	PS	
16	4.96		66	PS	
17	4.94		67	PS	
18	PS		68	PS	
19	PS		69	PS	
20	PS		70	PS	
21	PS		71	PS	
22	PS		72	0	
23	4.98		73	4.96/0	ACC ON/OFF
24	4.98		74	NC	
25	4.68		75	NC	
26	0		76	NC	
27	0～4.45		77	NC	
28	0		78	NC	
29	3.14/4.66	NOSE OPEN/CLOSE	79	NC	
30	0		80	NC	
31	0		81	4.98	
32	5.07		82	4.98/0	PWR ON/OFF
33	0		83	4.55/0	ACC ON/OFF
34	NC		84	NC	
35	5.13		85	4.05/0	PWR ON/OFF
36	4.98		86	NC	
37	PS		87	NC	
38	PS		88	2.38	
39	PS		89	NC	
40	PS		90	0/4.96	RADIO/CD
41	PS		91	5.1	
42	PS		92	5.1	
43	5.1/0	Normal/FM SEEK	93	PS	
44	4.98		94	0	
45	0/PS	CD TEXT／No CD TEXT	95	NC	
46	0		96	NC	
47	0/PS	CD TEXT／No CD TEXT	97	NC	
48	4.97		98	NC	
49	4.96		99	NC	
50	NC		100	NC	

IC551					
1	5.12		51	NC	
2	NC		52	NC	
3	0		53	PS	
4	0		54	PS	
5	0		55	PS	
6	PS		56	PS	
7	PS		57	PS	
8	0		58	0	
9	5.12/0	Normal/RESET SW ON	59	0	
10	NC		60	0	
11	NC		61	0	
12	NC		62	0	
13	NC		63	5.12	
14	NC		64	5.12	
15	NC		65	NC	
16	NC		66	NC	
17	NC		67	5.0/0	Normal/FM SEEK
18	NC		68	0	
19	NC		69	NC	
20	NC		70	NC	
21	NC		71	0	
22	NC		72	2.96/0	FM/MW or LW
23	0		73	5.16/PS	Normal/FM SEEK
24	NC		74	5.16/PS	Normal/FM SEEK
25	NC		75	0/PS	Normal/FM SEEK
26	NC		76	0/4.85	Normal/FM SEEK
27	NC		77	NC	
28	NC		78	0/PS	Normal/FM SEEK
29	NC		79	0/2.18	Normal/FM SEEK
30	NC		80	5.12	
31	NC		81	NC	
32	NC		82	0/5.11	Normal//LOCAL SEEK
33	NC		83	NC	
34	5.12/0	Normal/FM SEEK	84	0	
35	0		85	0~4.57	
36	0		86	0	
37	0		87	0	
38	0		88	0	
39	NC		89	0	
40	NC		90	0	
41	NC		91	0	
42	NC		92	0	
43	NC		93	5.12	
44	NC		94	5.12	
45	5.1		95	NC	
46	5.12		96	NC	
47	NC		97	5.2	
48	NC		98	NC	
49	NC		99	5	
50	5.12		100	NC	

IC581	
1	0
2	0
3	0
4	0
5	5.04
6	5.04
7	0
8	5.04

IC591	
1	0
2	0
3	0
4	0
5	PS
6	PS
7	0
8	4.99

IC631					
1	NC		14	NC	
2	0.22/6.08	NOSE OPEN/CLOSE	15	4.27	NOSE OPEN
3	NC		16	NC	
4	3.96	NOSE Active	17	NC	
5	NC		18	NC	
6	0/3.91	NOSE OPEN/CLOSE	19	0	
7	0		20	0	
8	3.91/0	NOSE OPEN/CLOSE	21	NC	
9	NC		22	NC	
10	12.49/12.19	Normal／NOSE Active	23	NC	
11	12.49/11.54	Normal／NOSE Active	24	4.29	NOSE CLOSE
12	NC		25	NC	
13	0				

IC801			
1	0	11	0
2	0	12	0
3	0	13	0
4	0	14	4.08
5	NC	15	5
6	2.74	16	5
7	0	17	14.19
8	0	18	0
9	0	19	0
10	0	20	0

IC851		
1	PS	CHG Connect
2	PS	CHG Connect
3	PS	CHG Connect
4	0	
5	2.45	CHG Connect
6	PS	CHG Connect
7	PS	CHG Connect
8	4.9	CHG Connect

IC902	
1	13.33
2	0
3	8.83

IC903	
1	0
2	-13.25
3	-8.89

	E	C	B	
Q002	0/4.35	8.25	0/5.00	LO/DX (FM)
Q003	0	0	0/2.57	Normal/FM SEEK
Q005	0	0	0/2.08	Normal/FM SEEK
Q090	0	8.28/0	0/2.62	Normal/FM SEEK
Q102	14.14	7.12/0	13.93/14.14	CD/RADIO or CHG
Q201	0	3.8	0	IF MUTE
Q202	4.91	0/4.85	4.60/0.21	Normal/SEEK
Q203	0	0/PS	4.60/0.21	Normal/SEEK
Q321	0	0	13.20/0	MUTE ON/OFF
Q322	0	0	13.20/0	MUTE ON/OFF
Q341	0	0	13.20/0	MUTE ON/OFF
Q342	0	0	13.20/0	MUTE ON/OFF
Q361	0	0	13.20/0	MUTE ON/OFF
Q362	0	0	13.20/0	MUTE ON/OFF
Q401	0	0.11/8.49	5.01/0	LED(YEL)-CONT
Q402	0	0/7.25	0.75/0	LED(AMB)-CONT
Q403	0	0/7.14	0.75/0	LED(GRN)-CONT
Q404	0	0	5.2	LED(BLU)-CONT
Q451	0	PS	PS	
Q452	0	0/3.44	5.05/0	DIMMER ON/OFF
Q454	2.09/5.07	2.00/0	1.49/2.85	PWR ON/OFF
Q481	5.06	14.16	5.67	
Q601	4.91	4.88/0	3.01/4.91	IN-INT ON/OFF
Q602	0	0/4.91	0/10.11	DIMMER ON/OFF
Q603	0	14.02	PS	BUZZER
Q604	0	PS	PS	
Q605	0	PS	0	
Q606	0	PS	PS	
Q607	5.07	0	5.07	
Q641	0	6.85/0	0/4.55	DOOR CLOSE/OPEN
Q801	14.29	14.25/0	13.59/14.28	PWR ON/OFF
Q802	0	0/14.35	4.06/0	PWR ON/OFF
Q807	12.52/0	14.17	13.07/0	Normal/ACC OFF
Q808	12.52/0	14.17	13.07/0	Normal/ACC OFF
Q821	14.15/14.18	0/14.17	14.11/13.44	ANT、REM/500mA OVER
Q822	0	14.11/0	0/9.72	ANT、REM/500mA OVER
Q823	14.17/14.21	14.16/0	13.48/14.17	ANT、REM/500mA OVER
Q824	0	0/14.17	5.4/0.74	ANT、REM/500mA OVER
Q841	10.44/0	14.17/14.39	11.06/0	PWR ON/OFF
Q842	10.45/0	14.17/14.39	11.06/0	PWR ON/OFF
Q851	4.93	1.98/PS	4.92/PS	Normal/CHG(Connect)
Q852	4.99	1.98/0	4.99/0	Normal/RESET
Q853	0	2.93/PS	0/PS	Normal/CHG(Connect)
Q871	8.90/0	13.99/14.39	9.51/0	PWR ON/OFF
Q873	3.52/0	8.66/0	4.19/0	PWR ON/OFF
Q874	3.51/0	8.68/0	4.15/0	PWR ON/OFF
Q876	8.90/0	13.99/14.39	9.51/0	PWR ON/OFF
Q881	5.04/0	14.4/0	5.64/0	PWR ON/OFF
Q882	8.47/0	14.19/0	9.02/0	PWR ON/OFF
Q883	5.65/0	8.88/0	6.28/0	PWR ON/OFF
Q884	8.42	8.34/1.93	0/8.41	FM/MW
Q886	8.42	0/8.27	8.34/7.62	FM/MW
Q893	0	6.21/0	0/4.60	MUTE ON/OFF

	E	C	B	
Q901	9.05/0	14.03/14.39	9.74/0	PWR ON/OFF
Q902	9.05/0	14.03/14.39	9.74/0	PWR ON/OFF
Q903	0	8.43/0	0.37	PWR ON/OFF
Q904	0	0.37/0	0.62/0	PWR ON/OFF
Q905	17.20/0	25.81/0	17.83/0	PWR ON/OFF

	D	S	G
Q872	9.69	14.06	9.69

	1	2	3	4	5	
Q009	NC	2.2/0	5.05	0	0	FM/MW
Q031	NC	4.95/0	5.07	8.33/0	0	PWR ON/OFF
Q101	NC	14.25/0	14.29	4.97/0	0	CD/RADIO or CHG
Q131	NC	0/5.05	5.17	0/5.11	0	FM/CD
Q453	NC	17.06/0	17.23/0	2.00/0	0	PWR ON/OFF
Q541	NC	14.03/0	14.08/14.40	4.57/0	0	ACC ON/OFF
Q803	NC	4.97	5	4.11	0	
Q804	NC	4.96/0	4.98	6.19/0	0	ACC ON/OFF
Q805	NC	4.93/0	5	4.96/0	0	ACC ON/OFF
Q806	NC	14.21	14.25	4.97	0	
Q870	NC	14.12/0	14.18/14.37	14.16/0	0	PWR ON/OFF
Q875	NC	4.98/0	4.99	8.71/0	0	PWR ON/OFF
Q885	0/8.41	8.35/1.96	8.42	2.84/0	0	FM/MW
Q891	NC	14.14/-8.56	14.26	6.21/0	0	MUTE ON/OFF

[Measuring Conditions]

- Power Supply Voltage : DC13V
- Measuring Meter : Digital Multi Meter
- Measuring Point Reference : Between GND
- Measuring Condition : FM : 98.1MHz
  AM : 1,000KHz
  CD : at playing Disc

(CD Deck Mechanism)

IC1

1, 2	2.4V	11	3.4V
3	5V	12	0V
4	0.1V	13	2.4V
5	4.1V	14, 15	0V
6	2.5V	16	2.6V
7	2.2V	17, 18	0V
8	3.4V	19	2.5V
9	2.5V	20	2.4V
10	4V	21~28	2.5V

IC2

1	2.3V	21	NC	41	NC	61	NC
2	2.4V	22	2.5V	42	NC	62	NC
3	2.3V	23	4.8V	43	NC	63	NC
4	5V	24	2.4V	44	2.4V	64	0V
5	0V	25	2.4V	45	1.1V	65	NC
6	2.4V	26	NC	46	2.4V	66	NC
7	1.5V	27	2.5V	47	2.4V	67	NC
8	3.5V	28	2.8V	48	1.8V	68	NC
9	4.9V	29	2.5V	49	5V	69	NC
10	NC	30	2.5V	50	5V	70	0V
11	NC	31	2.4V	51	0V	71	5V
12	NC	32	2.5V	52	NC	72	4.5V
13	0V	33	2.5V	53	NC	73	2.2V
14	2.7V	34	2.5V	54	NC	74	0V
15	NC	35	0V	55	0V	75	2.2V
16	0V	36	0V	56	4.9V	76	4.6V
17	3.4V	37	2.6V	57	0V	77	0V
18	4.8V	38	0V	58	2.4V	78	2.3V
19	NC	39	0V	59	2V	79	2.4V
20	NC	40	4.8V	60	5V	80	2.3V

IC3

1	NC	13, 14	0.1V
2	2.8V	15	0.8V
3	NC	16	0V
4	2.5V	17	0.6V
5	2.9V	18	NC
6, 7	2.5V	19, 20	6.8V
8	0V	21, 22	0V
9	6.8V	23, 24	NC
10	2.5V	25, 26	2.5V
11	0.1V	27	NC
12	0V	28	2.7V

IC4

1~4	4.8V	17	3.4V
5, 6	0V	18	3.5V
7	4.9V	19	1.5V
8	2V	20, 21	0V
9	2.3V	22, 23	4.9V
10	0V	24	4.7V
11	4.8V	25	4.9V
12, 13	0V	26	0V
14	4.9V	27	5V
15	2.5V	28	4.9V
16	NC	29, 30	5V

IC5

1	0.2V	14	4.8V
2	0V	15	0V
3~7	0.3V	16	5V
8, 9	2V	17	0.6V
10	0V	18	0V
11	2.6V	19	0.2V
12	3V	20	0.4V
13	2.5V		

IC6

1	5V
2	0V
3	6.8V

	E	C	B
Q1	4.8V	2.6V	4.1V
Q4	5V	5V	0V
Q6	5V	1.1V	4.4V
Q7	0V	4.4V	0V

[Measuring Conditions]

- Power Supply Voltage : DC11~16V allowable
- Measuring Meter : Digital Multi Meter
- Measuring Point Reference : Between GND
- Measuring Condition : at POWER ON
  (connect Tuner Unit)

Description of IC Terminal

D78F4218AGC : IC501

No.	Symbol	I/O	Terminal Description
1	NC	—	No connect terminal.
≀			
3			
4	CD CONT	I	Control signal input terminal from CD.
5	EJECT	O	EJECT signal output terminal to CD.
6	CD RESET	O	Reset signal output terminal to CD.
7	CD ON	O	Stand-by signal output terminal to CD.
8	NC	—	No connect terminal.
9	V_{DD}	—	Power supply connect terminal.
10	X2	—	System clock OSC connct terminal. (12.288MHz)
11	X1		
12	V_{SS}	—	GND connect terminal.
13	XT2	—	Sub system clock OSC connect terminal. (32.768KHz)
14	XT1		
15	$\overline{\text{RESET}}$	I	Reset signal input terminal.
16	BAT-DET	I	BATT detect signal input terminal.
17	ACC-DET	I	ACC detect signal input terminal.
18	CD DATA	O	Serial data signal output terminal to CD.
19	BUS-IN	I	Ai-NET BUS data signal input terminal.
20	BUS-OUT	O	Ai-NET BUS data signal output terminal.
21	CD BLKCK	I	SUB signal input terminal from CD.
22	CD DQSY	I	CD-TEXT signal input terminal from CD.
23	AV_{DD}	—	Power supply terminal of A/D converter.
24	AVref0	—	Reference voltage input terminal of A/D converter.
25	HI-TEMP	I	Temperature detect signal input terminal of CD.
26	GND	—	GND connect terminal.
27	FM/AM SM	I	FM / AM Signal Meter signal input terminal.
28	GND	—	GND connect terminal.
29	LPS	I	Nose position detect signal input terminal.
30	GND	—	GND connect terminal.
31			
32	AREA	I	Area set up signal input terminal.
33	AV_{SS}	—	GND connect terminal of A/D converter.
34	NC	—	No connect terminal.
35	DTS CE	O	Chip enable signal output terminal to DTS μ-com.
36	AVref1	—	Reference voltage input terminal of A/D converter.
37	CXD2727 RVDT	O	DSP CXD2727R serial data signal output terminal.

No.	Symbol	I/O	Terminal Description
38	CXD2727 TRDT	I	DSP CXD2727R serial data signal input terminal.
39	CXD2727 CLK	O	DSP CXD2727R serial clock signal output terminal.
40	LCD DO	I	Serial data signal input terminal from FRONT µ-com.
41	LCD DI	O	Chip enable signal output terminal to FRONT µ-com.
42	LCD START	O	Serial signal output terminal to FRONT µ-com.
43	DTS MUTE	I	MUTE signal input terminal from DTS µ-com.
44	LCD RST	I	Reset signal output terminal to LCD Driver.
45	CD SUBC	I	CD-TEXT data signal input terminal from CD.
46	NC	—	No connect terminal.
47	CD SBCK	O	Serial clock signal output terminal to CD.
48	CD C1	O	Serial control signal output terminal to CD.
49	CD C2	I	Serial control signal input terminal from CD.
50	NC	—	No connect terminal.
51	$\overline{\text{NOSE SW}}$	I	Nose opening switch signal input terminal.
52	OUT-REM	O	REMOTE ON signal output terminal for outer AMP.
53	NC	—	No connect terminal.
54	IN-INT	I	IN-INTERRUPT input terminal.
55	$\overline{\text{LIMIT SW 2}}$	I	Active Nose position detect signal input terminal.
56	$\overline{\text{LIMIT SW 1}}$		
57	$\overline{\text{MUTE}}$	O	Audio mute signal output terminal.
58	MOTOR REV	O	Nose Motor control signal output terminal.
59	MOTOR FOR		
60	DOOR LED	O	LED signal output terminal for lighting of CD Loading Slot.
61	BW CONT	O	FM band width switching control signal output terminal.
62	NC	—	No connect terminal.
63	NC		
64	EV DATA	O	Serial data signal output terminal to E-VOL.
65	EV CLK	O	Serial clock signal output terminal to E-VOL.
66	DTS STS	I	System status signal input terminal from DTS µ-com.
67	DTS CMD	O	Serial data signal output terminal to DTS µ-com.
68	DTS CLK	O	Serial clock signal output terminal to DTS µ-com.
69	CXD2727 XLAT	O	DSP CXD2727R serial clock signal output terminal.
70	CXD2727 RDY	I	DSP CXD2727R serial clock signal output terminal.
71	CXD2727 RST	O	DSP CXD2727R reset signal output terminal.
72	V_{SS}	—	GND connect terminal.
73	MOTOR CONT	O	Nose Motor power control signal output terminal.
74	NC	—	No connect terminal.
≀			
80			

No.	Symbol	I/O	Terminal Description
81	V_{DD}	—	Power supply connect terminal.
82	POWER IC ON	O	Stand-by control signal output terminal for power IC.
83	NOSE PWR	O	LCD Driver power control signal output terminal.
84	NC	—	No connect terminal.
85	PWR CONT	O	Power control signal output terminal for audio and key lighting.
86	NC	—	No connect terminal.
87			
88	BUZZER	O	Guide tone buzzer signal output terminal.
89	NC	—	No connect terminal.
90	V-CONT	O	CD power control signal output terminal.
91	REMOCON	I	Remocon data input terminal.
92	NC	—	No connect terminal.
93			
94	V_{PP} (GND)	—	GND connect terminal.
95	NC	—	No connect terminal.
≀			
99			
100	Auto Adj	I	Auto adjustment control signal input terminal.

D78F4216AGC : IC401

No.	Symbol	I/O	Terminal Description
1	REM IND	O	Remote control signal output terminal.
2	CHG ING	O	Changer signal output terminal.
3	EEPROM CLK	O	EEPROM serial clock output terminal.
4	EEPROM DATA	O	EEPROM serial data output terminal.
5	NC	—	No connect terminal.
6			
7	GREEN	O	Green litghting control signal output terminal.
8	AMBER	O	Amber litghting control signal output terminal.
9	V_{DD}	—	V_{DD} +5V connect terminal.
10	X2	—	X'tal connect terminal for main system clock OSC.
11	X1		

No.	Symbol	I/O	Terminal Description
12	Vss	—	GND connect terminal.
13	NC	—	No connect terminal.
14	GND	—	GND connect terminal.
15	$\overline{RESET}$	I	System reset signal input terminal.
16	NC	—	No connect terminal.
≀			
22			
23	AV_{DD}	—	V_{DD} +5V connect terminal.
24	$AV_{REF}0$		
25	GND	—	GND connect terminal.
26			
27			
28	3834 A/D	I	SPE-ANA data signal input terminal.
29	GND	—	GND connect terminal.
≀			
32			
33	AVss	—	GND connect terminal.
34	3834 SHIFT	O	SPE-ANA level switching signal output terminal.
35	NC	—	No connect terminal.
36	$AV_{REF}1$	—	V_{DD} +5V connect terminal.
37	NC	—	No connect terminal.
38	SEG DATA	O	OELD SEG Driver data line signal output terminal.
39	SEG CLK	O	OELD SEG Driver data clock signal output terminal.
40	LCD DI	I	Serial data signal input terminal from Main μ-com.
41	LCD DO	O	Serial data signal output terminal to Main μ-com.
42	LCD START	I	Serial trigger signal input terminal from Main μ-com.
43	NC	—	No connect terminal.
≀			
47			
48	$\overline{\text{IN DIMMER}}$	I	DIMMER control signal input terminal.
49	NC	—	No connect terminal.
50	DIMMER OUT	O	DIMMER control signal output terminal.
51	NC	—	No connect terminal.
≀			
55			
56	KEY SCAN0	O	KEY matrix scan line signal output terminal.
57	KEY SCAN1		
58	KEY SCAN2		
59	KEY SCAN3		
60	KEY SCAN4		

No.	Symbol	I/O	Terminal Description
61	3834A	O	Select signal output terminal to SPE-ANA IC.
62	3834B		
63	3834A		
64	KEY DATA0	I	KEY matrix data line signal input terminal.
65	KEY DATA1		
66	KEY DATA2		
67	KEY DATA3		
68	KEY DATA4		
69	NC	—	No connect terminal.
70			
71			
72	V_{SS}	—	GND connect terminal.
73	NC	—	No connect terminal.
~			
78			
79	ENCODER1	I	Encoder data signal input terminal.
80	ENCODER2		
81	V_{DD}	—	V_{DD} +5V connect terminal.
82	NC	—	No connect terminal.
~			
85			
86	COM YD	O	OELD COMMON Driver scanning line start signal output terminal.
87	COM CCLK	O	OELD COMMON Driver scanning line shift clock signal output terminal.
88	NC	—	No connect terminal.
~			
91			
92	SEG LP	O	OELD SEG Driver data latch signal output terminal.
93	NC	—	No connect terminal.
94	V_{PP}	—	GND connect terminal.
95	NC	—	No connect terminal.
~			
99			
100	$\overline{\text{VHH-CONT}}$	O	OELD Driver power control output terminal.

MB89689PF : IC551

No.	Symbol	I/O	Terminal Description
1	VCC	—	+5V connect terminal.
2	NC	—	No connect terminal.
3	XOA(GND)	—	GND connect terminal.
4	MODO(GND)		
5	MOD1(GND)		
6	X0	O	Crystal oscillator connect terminal for Main system clock.(8MHz)
7	X1	I	
8	VSS	—	GND connect terminal.
9	RESET	I	Reset signal input terminal. (L:RESET)
10	NC	—	No connect terminal.
≀			
22			
23	AM ST(PULL-DOWN)	—	Pull-down connect terminal.
24	NC	—	No connect terminal.
≀			
33			
34	T-MUTE	O	Tuner mute signal output terminal. (L:MUTE ON)
35	GND	—	GND connect terminal.
≀			
38			
39	NC	—	No connect terminal.
≀			
44			
45	RXD(PULL-UP)	I	RDS monitor input terminal. (Pull-up connect)
46	TXD	O	RDS monitor output terminal.
47	NC	—	No connect terminal.
≀			
49			
50	VCC	—	Power supply connect terminal.
51	NC	—	No connect terminal.
52			
53	TUNER CLK	I	Clock signal input terminal from Main μ-COM.
54	TUNER SI	I	Serial input terminal from Main μ-COM.
55	TUNER SO	O	Serial output terminal to Main μ-COM.
56	RDS SDA	I/O	RDS I2C data input/output terminal.
57	RDS CLK	O	RDS I2C clock output terminal.
58	GND	—	GND connect terminal.
59	VSS		
60	GND		
≀			
62			
63	E2P SDA	I/O	EEP-ROM data input/output terminal.
64	E2P CLK	O	EEP-ROM clock output terminal.
65	Devider(NC)	—	No connect terminal.
66	Narrow(NC)		
67	SEEK Req	O	Seek speed control terminal. (L:TUNER/during SEEK)

No.	Symbol	I/O	Terminal Description
68	GND	—	GND connect terminal.
69	NC	—	No connect terminal.
70	NC		
71	IF MUTE	O	IF Mute control terminal. (Pull-up connect)
72	FM/$\overline{\text{AM}}$	O	FM/AM switching terminal. (H : FM)
73	PLL CLK	O	PLL clock output terminal.
74	PLL DATA	I/O	PLL data input/output terminal. (Pull-up connect)
75	PLL CE	O	PLL CE output terminal.
76	SEEK Req	O	Seek speed control terminal. (H : TUNER/during SEEK)
77	NC	—	No connect terminal.
78	SD	I	SD input terminal. (H : Tuner/Station ON)
79	$\overline{\text{PSWN}}$	I	Audio signal level detection terminal from RDS Decoder(SAA6588T). (L : No Station)
80	$\overline{\text{Auto Adj.}}$	I	Auto Adjustment terminal. (L : Auto Adjustment start)
81	NC	—	No connect terminal.
82	LO/$\overline{\text{DX}}$	O	Local Seek/DX Seek switching terminal. (H : Tuner/Local Seek)
83	NC	—	No connect terminal.
84	AVSS	—	GND connect terminal.
85	S/M	I	Field strength input terminal. (A/D, Tuner)
86	M/P	I	Multipath detection input terminal. (A/D, SAA6588T)
87	GND	—	GND connect terminal.
≀			
92			
93	AVCC	—	Analog power supply terminal.
94	AVR		
95	NC	—	No connect terminal.
96			
97	TUNER STBY	I	Stand-by input terminal from Main μ-COM.
98	NC	—	No connect terminal.
99	DAVN	I	RDS data available input terminal. (SAA6588T)
100	NC	—	No connect terminal.

MN6627481RPM : IC2 (DVS-100)

No.	Symbol	I/O	Terminal Description
1	BCLK	O	Bit clock output for serial data.
2	LRCK	O	L/R identification signal output.
3	SR DATA	O	Serial data output.
4	DVDD1	I	Power supply input. (For digital cirsuit)
5	DVSS1	—	GND terminal. (For digital circuit)
6	TX	O	Digital audio interface signal output.
7	MCLK	I	Microprocessor command clock signal input.
8	MDATA	I	Microprocessor command clock signal input.
9	MLD	I	Microprocessor command clock signal input.
10	SENSE (NC)	—	No connect terminal.
11	/FLOCK (NC)	—	No connect terminal.
12	/TLOCK (NC)	—	No connect terminal.
13	BLKCK	O	Sub code block clock signal output.

No.	Symbol	I/O	Terminal Description
14	SQCK	I	External clock signal for sub-code Q register.
15	SUBQ (NC)	—	No connect terminal.
16	DMUTE	I	Muting signal input. ("H":Mute)
17	STAT	O	Status signal input.
18	/RST	I	Reset signal input. ("L":Reset)
19	SMCK (NC)	—	No connect terminal.
20	PMCK (NC)	—	No connect terminal.
21	TRV (NC)	—	No connect terminal.
22	TVD	O	Traverse drive output.
23	PC	O	Spindle motor ON signal output.
24	ECM	O	Spindle motor drive signal output. (forced mode output)
25	ECS	O	Spindle motor drive signal output. (servo error signal output)
26	KICK (NC)	—	No connect terminal.
27	TRD	O	Tracking drive signal output.
28	FOD	O	Focus drive signal output.
29	VREF	I	D/A output,Reference voltage input.
30	FBAL	O	Focus balance adjustment signal output.
31	TBAL	O	Tracking balance adjustment signal output.
32	FE	I	Focus error signal input. (analog input)
33	TE	I	Tracking error signal input. (analog input)
34	RFENV	I	RF envelope signal input.
35	VDET	I	Vibration detection signal input. ("H":detected)
36	OFT	I	Off-track signal input. ("H":off track)
37	TRCRS	I	Track cross signal input.
38	/RFDET	I	RF detection signal input. ("H":detcted)
39	BDO	I	Drop out signal input. ("H":Drop out)
40	LDON	O	Laser on signal output. ("H":ON)
41	TES (NC)	—	No connect terminal.
42	PLAY (NC)	—	No connect terminal.
43	WVEL (NC)	—	No connect terminal.
44	ARF	—	RF signal input.
45	IREF	I	reference current input.
46	DRF	I	DSL dias.
47	DSLF	I	DSL loop filter.
48	PLLF	I/O	DSL loop filter.
49	VCOF	I/O	VCO loop filter.
50	AVDD2	I/O	Power supply input. (For analog circuit)
51	AVSS2	—	GND terminal. (For analog circuit)
52	EFM (NC)	—	No connect terminal.
53	PCK (NC)	—	No connect terminal.
54	PDO (NC)	—	No connect terminal.
55	SUBC	O	Sub-code serial data output.
56	SBCK	I	Clock input sub-code serial data.
57	VSS	—	GND terminal.
58	X1	I	Crystal oscillating circuit input. (f=16.9344MHz)
59	X2	O	Crystal oscillating circuit output. (f=16.9344MHz)
60	VDD	I	Power supply input. (For oscillating circuit))
61	BYTCK (NC)	—	No connect terminal.

No.	Symbol	I/O	Terminal Description
62	/CLDCK (NC)	—	No connect terminal.
63	FCLK (NC)	—	No connect terminal.
64	PFLAG (NC)	O	Interpolation flag signal output.
65	FLAG (NC)	—	No connect terminal.
66	CLVS (NC)	—	No connect terminal.
67	CRC (NC)	—	No connect terminal.
68	DEMPH (NC)	—	No connect terminal.
69	RESY (NC)	—	No connect terminal.
70	/RST2	I	Reset input through MASH circuit. ("L":Reset)
71	/TEST	I	Test input. ("L":Test)
72	AVDD1	I	Power supply input. (For analog circuit)
73	OUTL	O	Left channel audio signal output.
74	AVSS1	—	GND terminal.
75	OUTR	O	Right channel audio signal output.
76	RSEL	I	RF signal polarity assignment input.
77	CSEL	I	Crystal oscillationg frequency designation input.
78	PSEL	I	Test input. (normally,"L")
79	MSEL	I	Output frequency switching for SMCK terminal.
80	SSEL	I	Output mode switching of SUBQ terminal.

CDA-7969R

Electrical Parts List

Capacitor : μ F=microfarads,pF=picofarads

Abbreviations

RES. = Resistor
C.F. = Carbon Film
M.F. = Metal Film
M.O. = Metal OxideFilm
M.P. = Metal Plate
TR. = Transistor
TRANS. = Transformer
CP. = Chip

CAP. = Capacitor
ELY. = Electrolytic
CER. = Ceramic
MYL. = Mylar
TAN. = Tantalum
POLY. = Polystyrol
PP. = Polypropylene
PLT. = Polyethylene
PF. = Polyester Film

Symbol No.	Part No.	Description
Main 1 P.W.Board		
IC's		
IC002	51T93332F01	IC,NJM2903M-TE3 -SE2
IC031	51T15731W10	TC7S66F-TE85L -CP
IC090	51T15731W10	TC7S66F-TE85L -CP
IC631	51T25448Y01	BA6219BFP-Y-E2 -SE9
IC801	51T95193W01	TDA3606AT -SE9
Transistors		
Q002	48T64222F05	TR ,UN2215 10 -TX
Q003	48T64222F01	TR ,UN2211 10-10 -TX
Q005	48T64222F02	TR ,UN2212 22-22 -TX
Q009	48T45594W12	TR ,XN1A312 -TX-CP
Q090	48T64222F01	TR ,UN2211 10-10 -TX
Q481	48T93828F04	TR,2SD1994A-S-TA -RD
Q541	48T45594W12	TR ,XN1A312 -TX-CP
Q601	48T64221F11	TR,UN211L-TX -CP
Q602	48T64222F02	TR ,UN2212 22-22 -TX
Q604	48T64222F01	TR ,UN2211 10-10 -TX
Q605	48T64222F01	TR ,UN2211 10-10 -TX
Q606	48T64222F01	TR ,UN2211 10-10 -TX
Q607	48T52437F05	TR ,2SB709A-S /TX-CP
Q801	48T84366F03	TR,2SB1243-Q-TV2 -RD
Q802	48T64222F11	TR,UN221F-TX -CP
Q803	48T45594W12	TR ,XN1A312 -TX-CP
Q804	48T45594W12	TR ,XN1A312 -TX-CP
Q805	48T45594W12	TR ,XN1A312 -TX-CP
Q806	48T45594W12	TR ,XN1A312 -TX-CP
Q807	48T93828F04	TR,2SD1994A-S-TA -RD
Q808	48T93828F04	TR,2SD1994A-S-TA -RD
Q821	48T63420F01	TR,2SA1037AK-146 -CP
Q822	48T64222F02	TR ,UN2212 22-22 -TX
Q823	48T84366F03	TR,2SB1243-Q-TV2 -RD
Q824	48T64222F12	TR,UN221L-TX -CP
Q841	48T93828F04	TR,2SD1994A-S-TA -RD
Q842	48T93828F04	TR,2SD1994A-S-TA -RD
Q881	48T52438F04	TR ,2SD601A-S /TX-CP
Q882	48T92368F04	TR,2SD1760 R -E5
Q883	48T52438F04	TR ,2SD601A-S /TX-CP
Q884	48T64221F13	TR,UN211H-TX -CP
Q885	48T45594W16	TR,XN1A311-TX -CP
Q886	48T52437F05	TR ,2SB709A-S /TX-CP
Diodes		
D001	48T15437Y01	DIO,HSM123-TL -CP
D002	48T25651W02	DIO,MA152WK-TX -CP
D003	48T75404W01	DIO,1SS353-TE17 -CP
D601	48T25651W02	DIO,MA152WK-TX -CP
D602	48T25651W02	DIO,MA152WK-TX -CP
D603	48T85357W01	DIO,1PS226 -CP
D631	48T81063F01	DIO,CP.MA159 / TX-CP
D801	48T85427W01	DIO,DSM3MA4 -E5
D802	48T15658Y01	DIO,1A4 -A5
D803	48T25651W02	DIO,MA152WK-TX -CP
D821	48T85357W01	DIO,1PS226 -CP
D823	48T15658Y01	DIO,1A4 -A5
ZD481	48T25766W04	DIO,ZEN.HZS 6B1L -R5
ZD631	48T25801W10	DIO,ZEN.HZS 5ALL -R5
ZD801	48T62934F29	DIO,ZEN.RD6.8MB3 -CP
ZD802	48T25766W39	DIO,ZEN.HZS12B1L -R5
ZD841	48T25766W30	DIO,ZEN.HZS11B1L -R5
ZD881	48T25766W02	DIO,ZEN.HZS 6A2L -R5
ZD882	48T25766W02	DIO,ZEN.HZS 6A2L -R5
Coils		
L001	24T65172W17	IND,LEM4532 4R7K -E2
L002	24T16403W29	COI,IND.15R-M -CP
L013	24T16403W07	COI,IND.R22-M K -CP
VT001	24T35286Y01	IND,MG56 523J -DB
Filters		
L011	91T65112W06	EMI,BK2125HM102 -CP
L012	91T65112W06	EMI,BK2125HM102 -CP
L014	91T65112W06	EMI,BK2125HM102 -CP
LPF001	91T75257W02	LPF,LPF11830KH-3C-DB

Surge Absorber

Symbol No.	Part No.	Description
SA001	48T81048F02	PTT,DSP-201M -RD

Capacitors

Symbol No.	Part No.	Description
C001	08S45676W80	CAP,CER 223K-B1E -CP
C002	08S45676W80	CAP,CER 223K-B1E -CP
C003	08S45676W80	CAP,CER 223K-B1E -CP
C005	08S45676W71	CAP,CER.682K-B1H -CP
C006	08S45677W52	CAP,CER 471J-CH1H-CP
C007	08S45676W73	CAP,CER.103K-B1H -CP
C008	08T55487W02	CAP,CER.224K-B1C -CP
C009	08S45677W36	CAP,CER.101J-CH1H-CP
C011	08S60102F46	CAP,CER 684K-B1E -CP
C012	08T15399W01	CAP,CER.223K-B1H -CP
C601	08S45676W80	CAP,CER 223K-B1E -CP
C603	08T15807W05	CAP,CP 104-B-K-1H
C604	08S45676W65	CAP,CER.222K-B1H -CP
C605	08S45677W36	CAP,CER.101J-CH1H-CP
C631	08S45676W80	CAP,CER 223K-B1E -CP
C634	08S45676W80	CAP,CER 223K-B1E -CP
C635	08S45676W80	CAP,CER 223K-B1E -CP
C801	08S65128F90	CAP,CER 473K-B1H -CP
C802	08T95466W01	CAP,CER 222K-B2J -CP
C803	08T95466W01	CAP,CER 222K-B2J -CP
C812	08S45676W80	CAP,CER 223K-B1E -CP
C821	08T55390W34	CAP,TF 274J-1H -R5
C841	08S45676W75	CAP,CER.153K-B1H -CP
C881	08S65128F90	CAP,CER 473K-B1H -CP
C882	08S45676W80	CAP,CER 223K-B1E -CP
C883	08S45676W80	CAP,CER 223K-B1E -CP
E001	23S75372W05	CAP,ELY 22R-1C -R2
E002	23S75372W05	CAP,ELY 22R-1C -R2
E003	23S75372W04	CAP,ELY 10R-1C -R2
E004	23S75372W05	CAP,ELY 22R-1C -R2
E005	23S75373W13	CAP,ELY 1R0-1H -R2
E006	23S75373W02	CAP,ELY 10R-1C -R2
E007	23S75373W13	CAP,ELY 1R0-1H -R2
E009	23S75372W05	CAP,ELY 22R-1C -R2
E380	23S75373W06	CAP,ELY 101-1C -R2
E381	23S75372W07	CAP,ELY 47R-1C -R2
E382	23S75372W07	CAP,ELY 47R-1C -R2
E481	23S75372W08	CAP,ELY 101-1C -H2
E482	23S75372W15	CAP,ELY 1R0-1H -R2
E483	23S75372W08	CAP,ELY 101-1C -H2
E601	23S65134W31	CAP,ELY 10R-1C(4)-E2
E801	23T75346W03	CAP,X-PRO 332-1C +
E802	23S65134W61	CAP,ELY 0R1-1H(3)-E2
E803	23S65134W72	CAP,ELY 3R3-1H(4)-E2
E804	23S75372W05	CAP,ELY 22R-1C -R2
E805	23S75372W07	CAP,ELY 47R-1C -R2
E806	23S75372W13	CAP,ELY R47-1H -R2
E807	23S75372W13	CAP,ELY R47-1H -R2
E808	23S75372W05	CAP,ELY 22R-1C -R2
E821	23S65134W31	CAP,ELY 10R-1C(4)-E2
E841	23S75372W08	CAP,ELY 101-1C -H2
E843	23S75372W02	CAP,ELY 101-1A -R2
E881	23S75372W06	CAP,ELY 33R-1C -R2
E882	23S75372W03	CAP,ELY 221-1A -H2
E883	23S75372W03	CAP,ELY 221-1A -H2

Resistors

Symbol No.	Part No.	Description
R001	06T75433W01	RES,RK 10RJ 1/4 -CP
R004	06T75431W51	RES,RK 471J 1/10 -CP
R005	06T25277Y95	RES,RK 393J 1/16 -CP
R006	06T25277Y87	RES,RK 183J 1/16 -CP
R007	06T25279Y03	RES,RK 225J 1/16 -CP
R008	06T25277Y57	RES,RK 102J 1/16 -CP
R009	06T25277Y57	RES,RK 102J 1/16 -CP
R010	06T25277Y57	RES,RK 102J 1/16 -CP
R011	06T25277Y81	RES,RK 103J 1/16 -CP
R014	06T25277Y97	RES,RK 473J 1/16 -CP
R015	06T25277Y97	RES,RK 473J 1/16 -CP
R021	06T25277Y93	RES,RK 333J 1/16 -CP
R022	06T25277Y81	RES,RK 103J 1/16 -CP
R023	06T25277Y75	RES,RK 562J 1/16 -CP
R026	06T25277Y91	RES,RK 273J 1/16 -CP
R031	06T25277Y89	RES,RK 223J 1/16 -CP
R090	06T25277Y89	RES,RK 223J 1/16 -CP
R484	06T75433W54	RES,RK 162J 1/4 -CP
R541	06T25277Y57	RES,RK 102J 1/16 -CP
R542	06T25277Y57	RES,RK 102J 1/16 -CP
R543	06T25277Y57	RES,RK 102J 1/16 -CP
R544	06T25277Y57	RES,RK 102J 1/16 -CP
R545	06T25277Y57	RES,RK 102J 1/16 -CP
R546	06T25277Y57	RES,RK 102J 1/16 -CP
R601	06T25277Y81	RES,RK 103J 1/16 -CP
R602	06T25277Y97	RES,RK 473J 1/16 -CP
R603	06T75433W73	RES,RK 103J 1/4 -CP
R604	06T25277Y81	RES,RK 103J 1/16 -CP
R607	06T25277Y33	RES,RK 101J 1/16 -CP
R608	06T25277Y65	RES,RK 222J 1/16 -CP
R609	06T25277Y69	RES,RK 332J 1/16 -CP
R610	06T25277Y81	RES,RK 103J 1/16 -CP

Symbol No.	Part No.	Description
R611	06T25277Y89	RES,RK 223J 1/16 -CP
R612	06T25277Y89	RES,RK 223J 1/16 -CP
R613	06T25277Y57	RES,RK 102J 1/16 -CP
R631	06T75433W13	RES,RK 33RJ 1/4 -CP
R632	06T75433W13	RES,RK 33RJ 1/4 -CP
R633	06T75433W13	RES,RK 33RJ 1/4 -CP
R634	06T75433W13	RES,RK 33RJ 1/4 -CP
R635	06T75433W13	RES,RK 33RJ 1/4 -CP
R636	06T75433W13	RES,RK 33RJ 1/4 -CP
R801	06T75433W82	RES,RK 243J 1/4 -CP
R802	06T75433W54	RES,RK 162J 1/4 -CP
R803	06T75433W55	RES,RK 182J 1/4 -CP
R804	06T75433W54	RES,RK 162J 1/4 -CP
R805	06T75433W54	RES,RK 162J 1/4 -CP
R806	06T75433W65	RES,RK 472J 1/4 -CP
R807	06T75433W65	RES,RK 472J 1/4 -CP
R808	06T75433W35	RES,RK 271J 1/4 -CP
R809	06T75433W35	RES,RK 271J 1/4 -CP
R812	06T75433W73	RES,RK 103J 1/4 -CP
R813	06T25277Y57	RES,RK 102J 1/16 -CP
R814	06T25277Y57	RES,RK 102J 1/16 -CP
R815	06T25277Y99	RES,RK 563J 1/16 -CP
R816	06T75433W39	RES,RK 391J 1/4 -CP
R817	06T75434W22	RES,RK 2R2J 1/4 -CP
R818	06T75434W22	RES,RK 2R2J 1/4 -CP
R820	06T25278Y19	RES,RK 364J 1/16 -CP
R821	06T25277Y81	RES,RK 103J 1/16 -CP
R822	06T75433W57	RES,RK 222J 1/4 -CP
R823	06T75433W82	RES,RK 243J 1/4 -CP
R824	06T75434W25	RES,RK 8R2J 1/4 -CP
R825	06T75434W25	RES,RK 8R2J 1/4 -CP
R826	06T75434W25	RES,RK 8R2J 1/4 -CP
R827	06T75434W25	RES,RK 8R2J 1/4 -CP
R828	06T25277Y81	RES,RK 103J 1/16 -CP
R831	06T25277Y90	RES,RK 243J 1/16 -CP
R832	06T75433W55	RES,RK 182J 1/4 -CP
R833	06T75433W55	RES,RK 182J 1/4 -CP
R837	06T75433W73	RES,RK 103J 1/4 -CP
R838	06T25279Y04	RES,RK JUMPER1/16-CP
R841	06T75433W32	RES,RK 201J 1/4 -CP
R842	06T75434W23	RES,RK 5R6J 1/4 -CP
R843	06T75434W23	RES,RK 5R6J 1/4 -CP
R846	06T75434W12	RES,RK 394J 1/4 -CP
R881	06T75433W55	RES,RK 182J 1/4 -CP
R882	06T75433W41	RES,RK 471J 1/4 -CP
R883	06S15593Y55	RES,RK 182F 1/10 -CP
R884	06S15593Y67	RES,RK 562F 1/10 -CP
R885	06T75433W49	RES,RK 102J 1/4 -CP
R886	06T75433W61	RES,RK 332J 1/4 -CP

Symbol No.	Part No.	Description
R895	06T75434W26	RES,RK JUMPER 1/4-CP
R896	06T75434W26	RES,RK JUMPER 1/4-CP

Connectors

Symbol No.	Part No.	Description
CB501	09T25256Y22	FFC,SFV22R-1STE1 -E9
CB502	09T25436Y09	WTB,53253-0910 -DB
CB521	09T35440Y32	BTB,IMSA9850S-32Y-EZ
CB522	09T35440Y32	BTB,IMSA9850S-32Y-EZ
CB551	09T75356W24	BTB,52365-2491 -ED
CB601	09T25436Y03	WTB,53253-0310 -DB
CB621	01T75451W17	ASSY,WIRE SENSOR
CB631	09T25436Y02	WTB,53253-0210 -DB
CB641	01T75451W18	ASSY,WIRE ESC 7867A
CB802	09T25436Y06	WTB,53253-0610 -DB

Main 2 P.W.Board

IC's

Symbol No.	Part No.	Description
IC101	51T15510W01	IC ,MC34063AML -SPD
IC201	51T35457Y01	TDA7402 -QT
IC202	51T93333F01	NJM2904M-TE3 -SE2
IC203	51T93333F01	NJM2904M-TE3 -SE2
IC221	51T25622Y02	CXD2726Q-5 -QT
IC311	51T25576W04	IC ,NJM4580E-TE2-SE3
IC331	51T25576W04	IC ,NJM4580E-TE2-SE3
IC351	51T25576W04	IC ,NJM4580E-TE2-SE3
IC501	51T35568Y05	MTP,D78F4218AGC -QT
IC591	51T15017Y01	M24C32WMN6T -SE2
IC851	51T93332F01	IC,NJM2903M-TE3 -SE2

Transistors

Symbol No.	Part No.	Description
Q101	48T45594W12	TR ,XN1A312 -TX-CP
Q102	48T15511W02	CP.2SB1261-TE2 -E5
Q131	48T45594W16	TR,XN1A311-TX -CP
Q201	48T64222F02	TR ,UN2212 22-22 -TX
Q202	48T64221F02	TR ,UN2112 22-22 -TX
Q203	48T45251W03	TR ,UN5212 22-22 -CP
Q321	48T25055Y02	TR,UN2226-TX -CP
Q322	48T25055Y02	TR,UN2226-TX -CP
Q341	48T25055Y02	TR,UN2226-TX -CP
Q342	48T25055Y02	TR,UN2226-TX -CP
Q361	48T25055Y02	TR,UN2226-TX -CP

Symbol No.	Part No.	Description
Q362	48T25055Y02	TR,UN2226-TX -CP
Q603	48T64222F02	TR ,UN2212 22-22 -TX
Q851	48T52437F05	TR ,2SB709A-S /TX-CP
Q852	48T64221F02	TR ,UN2112 22-22 -TX
Q853	48T52438F04	TR ,2SD601A-S /TX-CP
Q870	48T45594W12	TR ,XN1A312 -TX-CP
Q871	48T93828F03	TR,2SD1994A-R-TA -RD
Q872	48T52443F04	FET,CP.2SK198 -R/TX
Q873	48T93828F03	TR,2SD1994A-R-TA -RD
Q874	48T93828F03	TR,2SD1994A-R-TA -RD
Q875	48T45594W12	TR ,XN1A312 -TX-CP
Q876	48T93828F03	TR,2SD1994A-R-TA -RD
Q891	48T45594W12	TR ,XN1A312 -TX-CP
Q893	48T64222F02	TR ,UN2212 22-22 -TX
Diodes		
D101	48T85269W01	DIO,SHT SB040 -A5
D201	48T75404W01	DIO,1SS353-TE17 -CP
D202	48T75404W01	DIO,1SS353-TE17 -CP
D321	48T25651W01	DIO,CP MA152WA
D341	48T25651W01	DIO,CP MA152WA
D361	48T25651W01	DIO,CP MA152WA
D501	48T25651W02	DIO,MA152WK-TX -CP
D851	48T25651W01	DIO,CP MA152WA
D852	48T68828F01	DIO,1SS133 -A5
D853	48T25651W02	DIO,MA152WK-TX -CP
ZD871	48T25766W24	DIO,ZEN.HZS 9C1L -R5
ZD873	48T25801W08	DIO,ZEN.HZS 4BLL -R5
ZD874	48T25801W08	DIO,ZEN.HZS 4BLL -R5
Filters		
L102	91T65112W06	EMI,BK2125HM102 -CP
L221	91T65112W06	EMI,BK2125HM102 -CP
L222	91T65112W06	EMI,BK2125HM102 -CP
L501	91T65112W06	EMI,BK2125HM102 -CP
Z501	91T75463W06	EMI,NFM41R11C102T-E1
Coils		
L101	24T85339W17	IND,CDRH125 221M -EA
L131	24T65053W22	IND,LAL02VD 100K -R5

Symbol No.	Part No.	Description
Crystals		
XL221	91T85169W98	XTL,HC-49 18.432M-R5
XL501	91T95084W02	XTL,CS20 12.288M -E9
Buzzer		
BZ601	50T85541W01	BUZZER,CD11PA-XZ -H5
Switch		
SW301	40T45282W02	SW,SLIDE SLD-42-508X(NORM·EQ/DIV)
Thermistor		
TH501	48T25250Y01	TMT,ERTJ1VV104J -CP
Capacitors		
C101	08T15399W01	CAP,CER.223K-B1H -CP
C102	08T15399W01	CAP,CER.223K-B1H -CP
C103	08S45677W38	CAP,CER 121J-CH1H-CP
C104	08T15399W01	CAP,CER.223K-B1H -CP
C105	08S45676W73	CAP,CER.103K-B1H -CP
C108	08S45677W60	CAP,CER 102J-CH1H-CP
C109	08S45677W60	CAP,CER 102J-CH1H-CP
C110	08S45677W36	CAP,CER.101J-CH1H-CP
C131	08T15399W01	CAP,CER.223K-B1H -CP
C199	08S45676W73	CAP,CER.103K-B1H -CP
C202	08S45676W75	CAP,CER.153K-B1H -CP
C203	08S45676W85	CAP,CER 104K-B1C -CP
C204	08S45676W85	CAP,CER 104K-B1C -CP
C205	08S45677W36	CAP,CER.101J-CH1H-CP
C206	08S45677W60	CAP,CER 102J-CH1H-CP
C207	08S45676W85	CAP,CER 104K-B1C -CP
C208	08T15349Y01	CAP,CER 105K-B1A -CP
C209	08S45676W85	CAP,CER 104K-B1C -CP
C216	08S45677W48	CAP,CER.331J-CH1H-CP
C217	08S45677W48	CAP,CER.331J-CH1H-CP
C218	08S45677W12	CAP,CER.10RD-CH1H-CP
C219	08S45676W83	CAP,CER 473K-B1C -CP
C220	08S45677W25	CAP,CER 36RJ-CH1H-CP
C221	08S35374W01	CAP,CER 104K-B1E-CP
C222	08S45676W85	CAP,CER 104K-B1C -CP
C223	08S45676W85	CAP,CER 104K-B1C -CP

Symbol No.	Part No.	Description
C224	08S45676W85	CAP,CER 104K-B1C -CP
C225	08S45676W85	CAP,CER 104K-B1C -CP
C226	08S45676W85	CAP,CER 104K-B1C -CP
C227	08S45676W85	CAP,CER 104K-B1C -CP
C228	08S45677W09	CAP,CER 7R0D-CH1H-CP
C229	08S45677W16	CAP,CER.15RJ-CH1H-CP
C230	08S45676W85	CAP,CER 104K-B1C -CP
C231	08S45676W85	CAP,CER 104K-B1C -CP
C232	08S45676W85	CAP,CER 104K-B1C -CP
C233	08S45676W85	CAP,CER 104K-B1C -CP
C234	08S45676W85	CAP,CER 104K-B1C -CP
C235	08S82122F37	CAP,CER.101J-CH1H-CP
C236	08S82122F37	CAP,CER.101J-CH1H-CP
C237	08S35374W01	CAP,CER 104K-B1E-CP
C238	08S35374W01	CAP,CER 104K-B1E-CP
C239	08S35374W01	CAP,CER 104K-B1E-CP
C240	08S35374W01	CAP,CER 104K-B1E-CP
C241	08T15349Y01	CAP,CER 105K-B1A -CP
C242	08S35374W01	CAP,CER 104K-B1E-CP
C251	08S45677W58	CAP,CER 821J-CH1H-CP
C252	08S45677W58	CAP,CER 821J-CH1H-CP
C253	08S45677W58	CAP,CER 821J-CH1H-CP
C254	08S45677W58	CAP,CER 821J-CH1H-CP
C255	08S45677W58	CAP,CER 821J-CH1H-CP
C256	08S45677W58	CAP,CER 821J-CH1H-CP
C257	08S45677W58	CAP,CER 821J-CH1H-CP
C258	08S45677W58	CAP,CER 821J-CH1H-CP
C259	08S45677W58	CAP,CER 821J-CH1H-CP
C260	08S45677W58	CAP,CER 821J-CH1H-CP
C261	08S45677W58	CAP,CER 821J-CH1H-CP
C262	08S45677W58	CAP,CER 821J-CH1H-CP
C311	08S45677W23	CAP,CER.30RJ-CH1H-CP
C312	08S45677W23	CAP,CER.30RJ-CH1H-CP
C331	08S45677W23	CAP,CER.30RJ-CH1H-CP
C332	08S45677W23	CAP,CER.30RJ-CH1H-CP
C351	08S45677W23	CAP,CER.30RJ-CH1H-CP
C352	08S45677W23	CAP,CER.30RJ-CH1H-CP
C382	08S35349Y08	CAP,CER 102K-B1H -CP
C385	08S35349Y08	CAP,CER 102K-B1H -CP
C388	08S35349Y08	CAP,CER 102K-B1H -CP
C501	08S45677W48	CAP,CER.331J-CH1H-CP
C502	08S45677W16	CAP,CER.15RJ-CH1H-CP
C503	08S45677W14	CAP,CER.12RJ-CH1H-CP
C504	08T15349Y01	CAP,CER 105K-B1A -CP
C507	08S45676W73	CAP,CER.103K-B1H -CP
C509	08S45676W73	CAP,CER.103K-B1H -CP
C591	08S45676W80	CAP,CER 223K-B1E -CP
C851	08S45677W36	CAP,CER.101J-CH1H-CP
C852	08S45677W22	CAP,CER.27RJ-CH1H-CP

Symbol No.	Part No.	Description
E101	23S75372W08	CAP,ELY 101-1C -H2
E102	23T55378W03	CAP,KMG 471-1A -R2
E103	23S75372W05	CAP,ELY 22R-1C -R2
E121	23S75372W15	CAP,ELY 1R0-1H -R2
E122	23S75372W15	CAP,ELY 1R0-1H -R2
E123	23S75372W15	CAP,ELY 1R0-1H -R2
E131	23S65134W31	CAP,ELY 10R-1C(4)-E2
E201	23S75372W05	CAP,ELY 22R-1C -R2
E202	23S75372W15	CAP,ELY 1R0-1H -R2
E203	23S75372W15	CAP,ELY 1R0-1H -R2
E204	23S75372W15	CAP,ELY 1R0-1H -R2
E205	23S75372W15	CAP,ELY 1R0-1H -R2
E206	23S75373W11	CAP,ELY R47-1H -R2
E207	23S75372W16	CAP,ELY 2R2-1H -R2
E211	23S75372W04	CAP,ELY 10R-1C -R2
E213	23S75372W09	CAP,ELY 4R7-1V -R2
E214	23S75372W05	CAP,ELY 22R-1C -R2
E215	23S75372W05	CAP,ELY 22R-1C -R2
E221	23S75372W03	CAP,ELY 221-1A -H2
E222	23S75373W01	CAP,ELY 221-0J -R2
E223	23S75372W05	CAP,ELY 22R-1C -R2
E224	23S75372W09	CAP,ELY 4R7-1V -R2
E225	23S75372W09	CAP,ELY 4R7-1V -R2
E226	23S75372W05	CAP,ELY 22R-1C -R2
E227	23S75372W05	CAP,ELY 22R-1C -R2
E251	23S75372W15	CAP,ELY 1R0-1H -R2
E252	23S75372W15	CAP,ELY 1R0-1H -R2
E255	23S75372W15	CAP,ELY 1R0-1H -R2
E256	23S75372W15	CAP,ELY 1R0-1H -R2
E259	23S75372W15	CAP,ELY 1R0-1H -R2
E260	23S75372W15	CAP,ELY 1R0-1H -R2
E311	23S75372W16	CAP,ELY 2R2-1H -R2
E312	23S75372W16	CAP,ELY 2R2-1H -R2
E313	23S75372W04	CAP,ELY 10R-1C -R2
E314	23S75372W04	CAP,ELY 10R-1C -R2
E321	23S75372W16	CAP,ELY 2R2-1H -R2
E322	23S75372W16	CAP,ELY 2R2-1H -R2
E331	23S75372W16	CAP,ELY 2R2-1H -R2
E332	23S75372W16	CAP,ELY 2R2-1H -R2
E333	23S75372W04	CAP,ELY 10R-1C -R2
E334	23S75372W04	CAP,ELY 10R-1C -R2
E341	23S75372W16	CAP,ELY 2R2-1H -R2
E342	23S75372W16	CAP,ELY 2R2-1H -R2
E351	23S75372W16	CAP,ELY 2R2-1H -R2
E352	23S75372W16	CAP,ELY 2R2-1H -R2
E353	23S75372W04	CAP,ELY 10R-1C -R2
E354	23S75372W04	CAP,ELY 10R-1C -R2
E361	23S75372W16	CAP,ELY 2R2-1H -R2
E362	23S75372W16	CAP,ELY 2R2-1H -R2

Symbol No.	Part No.	Description
E501	23S75372W03	CAP,ELY 221-1A -H2
E591	23S75373W03	CAP,ELY 22R-1C -R2
E851	23S75372W05	CAP,ELY 22R-1C -R2
E871	23S75373W06	CAP,ELY 101-1C -R2
E872	23S75372W06	CAP,ELY 33R-1C -R2
E873	23S75372W02	CAP,ELY 101-1A -R2
E876	23S75372W16	CAP,ELY 2R2-1H -R2
E877	23S75372W02	CAP,ELY 101-1A -R2
E878	23S75372W16	CAP,ELY 2R2-1H -R2
E879	23S75372W02	CAP,ELY 101-1A -R2
Resistors		
C505	06T25279Y04	RES,RK JUMPER1/16-CP
L223	06S64996F39	RES,RK JUMPER 1/8-CP
L224	06S64996F39	RES,RK JUMPER 1/8-CP
R101	06T75433W25	RES,RK 101J 1/4 -CP
R102	06T75433W43	RES,RK 561J 1/4 -CP
R103	06T75433W43	RES,RK 561J 1/4 -CP
R104	06S15593Y65	RES,RK 472F 1/10 -CP
R105	06S15593Y81	RES,RK 223F 1/10 -CP
R107	06T75434W16	RES,RK 564J 1/4 -CP
R111	06T25277Y97	RES,RK 473J 1/16 -CP
R112	06T25277Y97	RES,RK 473J 1/16 -CP
R113	06T25277Y97	RES,RK 473J 1/16 -CP
R121	06T25277Y65	RES,RK 222J 1/16 -CP
R122	06T25277Y65	RES,RK 222J 1/16 -CP
R200	06T25277Y95	RES,RK 393J 1/16 -CP
R201	06T25278Y22	RES,RK 474J 1/16 -CP
R202	06T25278Y06	RES,RK 104J 1/16 -CP
R203	06T25277Y57	RES,RK 102J 1/16 -CP
R204	06T25277Y57	RES,RK 102J 1/16 -CP
R205	06T25277Y90	RES,RK 243J 1/16 -CP
R206	06T25277Y95	RES,RK 393J 1/16 -CP
R210	06T25277Y77	RES,RK 682J 1/16 -CP
R211	06T25277Y57	RES,RK 102J 1/16 -CP
R212	06T25277Y81	RES,RK 103J 1/16 -CP
R213	06T25277Y57	RES,RK 102J 1/16 -CP
R214	06T25277Y58	RES,RK 112J 1/16 -CP
R215	06T25277Y81	RES,RK 103J 1/16 -CP
R221	06T25279Y03	RES,RK 225J 1/16 -CP
R223	06T25279Y01	RES,RK 105J 1/16 -CP
R224	06T25279Y02	RES,RK 155J 1/16 -CP
R226	06T25277Y57	RES,RK 102J 1/16 -CP
R227	06T25277Y57	RES,RK 102J 1/16 -CP
R228	06T25277Y57	RES,RK 102J 1/16 -CP
R229	06T25277Y57	RES,RK 102J 1/16 -CP
R230	06T25277Y57	RES,RK 102J 1/16 -CP

Symbol No.	Part No.	Description
R231	06T25277Y57	RES,RK 102J 1/16 -CP
R232	06T25277Y81	RES,RK 103J 1/16 -CP
R233	06T25277Y89	RES,RK 223J 1/16 -CP
R234	06T25277Y89	RES,RK 223J 1/16 -CP
R251	06T25277Y61	RES,RK 152J 1/16 -CP
R252	06T25277Y61	RES,RK 152J 1/16 -CP
R253	06T25277Y61	RES,RK 152J 1/16 -CP
R254	06T25277Y61	RES,RK 152J 1/16 -CP
R255	06T25277Y61	RES,RK 152J 1/16 -CP
R256	06T25277Y61	RES,RK 152J 1/16 -CP
R257	06T25277Y61	RES,RK 152J 1/16 -CP
R258	06T25277Y61	RES,RK 152J 1/16 -CP
R259	06T25277Y61	RES,RK 152J 1/16 -CP
R260	06T25277Y61	RES,RK 152J 1/16 -CP
R261	06T25277Y61	RES,RK 152J 1/16 -CP
R262	06T25277Y61	RES,RK 152J 1/16 -CP
R311	06T25278Y06	RES,RK 104J 1/16 -CP
R312	06T25278Y06	RES,RK 104J 1/16 -CP
R313	06T25277Y81	RES,RK 103J 1/16 -CP
R314	06T25277Y81	RES,RK 103J 1/16 -CP
R315	06T25277Y91	RES,RK 273J 1/16 -CP
R316	06T25277Y91	RES,RK 273J 1/16 -CP
R321	06T75431W98	RES,RK 433J 1/10 -CP
R322	06T75431W98	RES,RK 433J 1/10 -CP
R323	06T75431W43	RES,RK 221J 1/10 -CP
R324	06T75431W43	RES,RK 221J 1/10 -CP
R325	06T75431W35	RES,RK 101J 1/10 -CP
R326	06T75431W35	RES,RK 101J 1/10 -CP
R331	06T25278Y06	RES,RK 104J 1/16 -CP
R332	06T25278Y06	RES,RK 104J 1/16 -CP
R333	06T25277Y81	RES,RK 103J 1/16 -CP
R334	06T25277Y81	RES,RK 103J 1/16 -CP
R335	06T25277Y91	RES,RK 273J 1/16 -CP
R336	06T25277Y91	RES,RK 273J 1/16 -CP
R341	06T75431W98	RES,RK 433J 1/10 -CP
R342	06T75431W98	RES,RK 433J 1/10 -CP
R343	06T75431W43	RES,RK 221J 1/10 -CP
R344	06T75431W43	RES,RK 221J 1/10 -CP
R345	06T75431W35	RES,RK 101J 1/10 -CP
R346	06T75431W35	RES,RK 101J 1/10 -CP
R351	06T25278Y06	RES,RK 104J 1/16 -CP
R352	06T25278Y06	RES,RK 104J 1/16 -CP
R353	06T25277Y81	RES,RK 103J 1/16 -CP
R354	06T25277Y81	RES,RK 103J 1/16 -CP
R355	06T25277Y91	RES,RK 273J 1/16 -CP
R356	06T25277Y91	RES,RK 273J 1/16 -CP
R361	06T75431W98	RES,RK 433J 1/10 -CP
R362	06T75431W98	RES,RK 433J 1/10 -CP
R363	06T75431W43	RES,RK 221J 1/10 -CP

Symbol No.	Part No.	Description
R364	06T75431W43	RES,RK 221J 1/10 -CP
R365	06T75431W35	RES,RK 101J 1/10 -CP
R366	06T75431W35	RES,RK 101J 1/10 -CP
R381	06T75432W22	RES,RK 394J 1/10 -CP
R502	06T25278Y06	RES,RK 104J 1/16 -CP
R503	06T25277Y57	RES,RK 102J 1/16 -CP
R504	06T25277Y83	RES,RK 123J 1/16 -CP
R506	06S15593Y57	RES,RK 222F 1/10 -CP
R507	06T25277Y57	RES,RK 102J 1/16 -CP
R508	06T25277Y57	RES,RK 102J 1/16 -CP
R509	06T25278Y06	RES,RK 104J 1/16 -CP
R511	06T25277Y57	RES,RK 102J 1/16 -CP
R514	06T25277Y89	RES,RK 223J 1/16 -CP
R515	06T25277Y89	RES,RK 223J 1/16 -CP
R518	06T25277Y57	RES,RK 102J 1/16 -CP
R519	06T25277Y57	RES,RK 102J 1/16 -CP
R520	06T25277Y57	RES,RK 102J 1/16 -CP
R522	06T25277Y57	RES,RK 102J 1/16 -CP
R523	06T25277Y57	RES,RK 102J 1/16 -CP
R532	06T25278Y22	RES,RK 474J 1/16 -CP
R533	06T25279Y04	RES,RK JUMPER1/16-CP
R534	06T25279Y04	RES,RK JUMPER1/16-CP
R535	06T75432W50	RES,RK JUMPER1/10-CP
R538	06T25277Y57	RES,RK 102J 1/16 -CP
R539	06T25277Y89	RES,RK 223J 1/16 -CP
R547	06T25277Y57	RES,RK 102J 1/16 -CP
R591	06T75433W33	RES,RK 221J 1/4 -CP
R592	06T25277Y81	RES,RK 103J 1/16 -CP
R593	06T25277Y81	RES,RK 103J 1/16 -CP
R605	06T75433W49	RES,RK 102J 1/4 -CP
R606	06T75431W83	RES,RK 103J 1/10 -CP
R851	06T25277Y81	RES,RK 103J 1/16 -CP
R852	06T25277Y81	RES,RK 103J 1/16 -CP
R853	06T25277Y73	RES,RK 472J 1/16 -CP
R854	06T25277Y59	RES,RK 122J 1/16 -CP
R855	06T75433W01	RES,RK 10RJ 1/4 -CP
R856	06T75433W15	RES,RK 39RJ 1/4 -CP
R857	06T75433W15	RES,RK 39RJ 1/4 -CP
R858	06T25277Y65	RES,RK 222J 1/16 -CP
R859	06T25277Y61	RES,RK 152J 1/16 -CP
R860	06T25277Y61	RES,RK 152J 1/16 -CP
R861	06T25277Y65	RES,RK 222J 1/16 -CP
R862	06T75433W15	RES,RK 39RJ 1/4 -CP
R863	06T75433W15	RES,RK 39RJ 1/4 -CP
R864	06T75431W83	RES,RK 103J 1/10 -CP
R865	06T75431W83	RES,RK 103J 1/10 -CP
R866	06T25277Y77	RES,RK 682J 1/16 -CP
R867	06T25277Y77	RES,RK 682J 1/16 -CP
R871	06T75434W22	RES,RK 2R2J 1/4 -CP

Symbol No.	Part No.	Description
R872	06T75434W22	RES,RK 2R2J 1/4 -CP
R874	06T75433W48	RES,RK 911J 1/4 -CP
R875	06T75433W48	RES,RK 911J 1/4 -CP
R877	06T75432W03	RES,RK 623J 1/10 -CP
R878	06T75432W21	RES,RK 364J 1/10 -CP
R879	06T75434W16	RES,RK 564J 1/4 -CP
R894	06T75431W83	RES,RK 103J 1/10 -CP
RA512	06S45591W06	RES,ARY MNR102J 4-CP
RA513	06S45591W06	RES,ARY MNR102J 4-CP
RA514	06S45591W06	RES,ARY MNR102J 4-CP

Connectors

CB101	09T25262Y20	FFC,SFW20R-2STE1 -EQ
CB131	09T25738Y03	WTB,53254-0310 -DB
CB301	09T25738Y09	WTB,53254-0910 -DB
CH521	09T35616Y32	BTB,IMSA9854B-32A-DB
CH522	09T35616Y32	BTB,IMSA9854B-32A-DB

Main 3 P.W.Board

IC's

IC032	51T15132Y02	SAA6588T -SE9
IC551	51T15161Y03	IC,MB89689PF-G150-QT
IC581	51T25160Y01	M24C04-WMN6T -SE2

Transistor

Q031	48T45594W16	TR,XN1A311-TX -CP

Diode

D551	48T25651W02	DIO,MA152WK-TX -CP

Crystals

XL001	91T85169W18	XTL,HC-49 4.332M -R5
XL551	91T85169W44	XTL,HC-49 7.3728M-R5

Filter

L551	91T65112W06	EMI,BK2125HM102 -CP

Symbol No.	Part No.	Description
Capacitors		
C032	08S65128F69	CAP,CER.103K-B1H -CP
C033	08S45677W36	CAP,CER.101J-CH1H-CP
C035	08S45677W48	CAP,CER.331J-CH1H-CP
C037	08S45677W54	CAP,CER 561J-CH1H-CP
C038	08S65128F61	CAP,CER.222K-B1H -CP
C039	08S65128F61	CAP,CER.222K-B1H -CP
C041	08S82122F24	CAP,CER.30RJ-CH1H-CP
C042	08S82122F21	CAP,CER.22RJ-CH1H-CP
C551	08S65128F69	CAP,CER.103K-B1H -CP
C552	08S82122F19	CAP,CER.18RJ-CH1H-CP
C553	08S82122F17	CAP,CER.15RJ-CH1H-CP
C581	08T15399W01	CAP,CER.223K-B1H -CP
C582	08S65128F69	CAP,CER.103K-B1H -CP
E031	23S75372W04	CAP,ELY 10R-1C -R2
E032	23S75372W16	CAP,ELY 2R2-1H -R2
E551	23S75372W03	CAP,ELY 221-1A -H2
E581	23S75372W05	CAP,ELY 22R-1C -R2
Resistors		
R032	06T75432W50	RES,RK JUMPER1/10-CP
R033	06T75432W50	RES,RK JUMPER1/10-CP
R034	06T25277Y57	RES,RK 102J 1/16 -CP
R035	06T75432W50	RES,RK JUMPER1/10-CP
R036	06T25277Y43	RES,RK 271J 1/16 -CP
R037	06T25277Y43	RES,RK 271J 1/16 -CP
R038	06T25277Y57	RES,RK 102J 1/16 -CP
R040	06T75431W67	RES,RK 222J 1/10 -CP
R041	06T25278Y22	RES,RK 474J 1/16 -CP
R042	06T75431W59	RES,RK 102J 1/10 -CP
R551	06T75431W99	RES,RK 473J 1/10 -CP
R552	06T75431W91	RES,RK 223J 1/10 -CP
R553	06T75431W99	RES,RK 473J 1/10 -CP
R554	06T25277Y43	RES,RK 271J 1/16 -CP
R555	06T25277Y43	RES,RK 271J 1/16 -CP
R556	06T75431W59	RES,RK 102J 1/10 -CP
R557	06T75431W59	RES,RK 102J 1/10 -CP
R558	06T75431W59	RES,RK 102J 1/10 -CP
R559	06T75431W83	RES,RK 103J 1/10 -CP
R560	06T75431W83	RES,RK 103J 1/10 -CP
R561	06T75431W59	RES,RK 102J 1/10 -CP
R562	06T75431W79	RES,RK 682J 1/10 -CP
R563	06T75431W91	RES,RK 223J 1/10 -CP
R564	06T75431W83	RES,RK 103J 1/10 -CP
R565	06T75431W59	RES,RK 102J 1/10 -CP
R566	06T75431W59	RES,RK 102J 1/10 -CP

Symbol No.	Part No.	Description
R567	06T75431W59	RES,RK 102J 1/10 -CP
R568	06T75431W59	RES,RK 102J 1/10 -CP
R569	06T75431W59	RES,RK 102J 1/10 -CP
R570	06T75431W75	RES,RK 472J 1/10 -CP
R571	06T25277Y57	RES,RK 102J 1/16 -CP
R581	06T75433W33	RES,RK 221J 1/4 -CP
R582	06T75431W83	RES,RK 103J 1/10 -CP
R583	06T75431W83	RES,RK 103J 1/10 -CP
Connectors		
CH551	09T75355W24	BTB,53268-2491 -ED
Front P.W.Board		
IC's		
IC401	51T35566Y06	MTP,D78F4216AGC -QT
IC403	51T35614Y01	SBX3050-02 -NE5
IC404	51T15731W05	TC7S04F-TE85L -CP
IC451	51T95048W01	BA3834F -SE9
Transistors		
Q401	48T64222F01	TR ,UN2211 10-10 -TX
Q402	48T63788F04	TR ,CP.2SD1328-T -TX
Q403	48T63788F04	TR ,CP.2SD1328-T -TX
Q404	48T64222F01	TR ,UN2211 10-10 -TX
Q451	48T64222F02	TR ,UN2212 22-22 -TX
Q452	48T64222F02	TR ,UN2212 22-22 -TX
Q453	48T45594W16	TR,XN1A311-TX -CP
Q454	48T64221F05	TR ,UN2115 10 -TX
Diodes		
D401	48T81063F01	DIO,CP.MA159 / TX-CP
D402	48T94471F04	DIO,IMN10-T108 -CP
D403	48T85357W01	DIO,1PS226 -CP
D404	48T85357W01	DIO,1PS226 -CP
D405	48T85357W01	DIO,1PS226 -CP
D406	48T85357W01	DIO,1PS226 -CP
D407	48T85357W01	DIO,1PS226 -CP
D408	48T85357W01	DIO,1PS226 -CP
D409	48T85357W01	DIO,1PS226 -CP
D410	48T85357W01	DIO,1PS226 -CP

Symbol No.	Part No.	Description
D411	48T85357W01	DIO,1PS226 -CP
D412	48T85357W01	DIO,1PS226 -CP
D413	48T85357W01	DIO,1PS226 -CP
LED's		
LD401	48T25534Y06	LED,YEL PY1111C -CP
LD402	48T25583Y01	LED,BLU KB1111CE -CP
LD403	48T25534Y03	LED,AMB AA1111C -CP
LD404	48T25534Y03	LED,AMB AA1111C -CP
LD405	48T25534Y03	LED,AMB AA1111C -CP
LD406	48T25534Y03	LED,AMB AA1111C -CP
LD407	48T25534Y03	LED,AMB AA1111C -CP
LD408	48T25534Y03	LED,AMB AA1111C -CP
LD410	48T65477W03	LED,SML-010PTT87 -CP(GRN)
LD411	48T65477W03	LED,SML-010PTT87 -CP(GRN)
LD412	48T65477W03	LED,SML-010PTT87 -CP(GRN)
LD413	48T65477W03	LED,SML-010PTT87 -CP(GRN)
LD414	48T65477W03	LED,SML-010PTT87 -CP(GRN)
LD415	48T65477W03	LED,SML-010PTT87 -CP(GRN)
LD417	48T15110Y02	LED,A/G AABG1211C-CP
LD418	48T15110Y02	LED,A/G AABG1211C-CP
LD419	48T15110Y02	LED,A/G AABG1211C-CP
LD420	48T15110Y02	LED,A/G AABG1211C-CP
LD421	48T15110Y02	LED,A/G AABG1211C-CP
LD422	48T15110Y02	LED,A/G AABG1211C-CP
LD423	48T15110Y02	LED,A/G AABG1211C-CP
LD424	48T15110Y02	LED,A/G AABG1211C-CP
LD425	48T15110Y02	LED,A/G AABG1211C-CP
LD426	48T15110Y02	LED,A/G AABG1211C-CP
LD427	48T15110Y02	LED,A/G AABG1211C-CP
LD428	48T15110Y02	LED,A/G AABG1211C-CP
LD429	48T15521Y04	LED,GRN 310PT-JK -CP
LD430	48T15521Y04	LED,GRN 310PT-JK -CP
LD431	48T15521Y04	LED,GRN 310PT-JK -CP
LD434	48T15110Y02	LED,A/G AABG1211C-CP
LD435	48T15110Y02	LED,A/G AABG1211C-CP
LD436	48T15110Y02	LED,A/G AABG1211C-CP
LD437	48T15110Y02	LED,A/G AABG1211C-CP
LD438	48T15110Y02	LED,A/G AABG1211C-CP
LD439	48T15110Y02	LED,A/G AABG1211C-CP
LD440	48T25534Y03	LED,AMB AA1111C -CP
LD441	48T25534Y03	LED,AMB AA1111C -CP
LD442	48T25534Y03	LED,AMB AA1111C -CP

Symbol No.	Part No.	Description
Switches		
SW401	40T25004Y01	SW,TACT SKQYPB -E2 (MUTE/BLACK OUT)
SW402	40T25004Y01	SW,TACT SKQYPB -E2(FWD/UP)
SW403	40T25004Y01	SW,TACT SKQYPB -E2 (PLAY/PAUSE/TUNE/A.ME)
SW404	40T25004Y01	SW,TACT SKQYPB -E2(DN/BWD)
SW406	40T25004Y01	SW,TACT SKQYPB -E2(PWR/SOURCE)
SW407	40T25004Y01	SW,TACT SKQYPB -E2(T.S.M./BAND)
SW408	40T25004Y01	SW,TACT SKQYPB -E2(DHE)
SW409	40T25004Y01	SW,TACT SKQYPB -E2(DISP/INTLZ)
SW410	40T25004Y01	SW,TACT SKQYPB -E2(TITLE)
SW411	40T25004Y01	SW,TACT SKQYPB -E2(F/A.PROC)
SW412	40T25004Y01	SW,TACT SKQYPB -E2(F1)
SW413	40T25004Y01	SW,TACT SKQYPB -E2(F2)
SW414	40T25004Y01	SW,TACT SKQYPB -E2(F3)
SW415	40T25004Y01	SW,TACT SKQYPB -E2(F4)
SW416	40T25004Y01	SW,TACT SKQYPB -E2(F5)
SW417	40T25004Y01	SW,TACT SKQYPB -E2(F6)
SW418	40T25004Y01	SW,TACT SKQYPB -E2(EJECT/HIDE)
SW419	40T25004Y01	SW,TACT SKQYPB -E2 (Didital Time Correction)
SW420	40T25004Y01	SW,TACT SKQYPB -E2 (7-Band Graphic EQ)
SW421	40T25004Y01	SW,TACT SKQYPB -E2(RESET)
Filters		
L402	91T65112W06	EMI,BK2125HM102 -CP
L403	91T65112W06	EMI,BK2125HM102 -CP
Coil		
L401	24T16403W15	COI,IND.1R0-M K -CP
Crystal		
XL401	91T95084W02	XTL,CS20 12.288M -E9
Capacitors		
C401	08S45676W80	CAP,CER 223K-B1E -CP
C402	08S45676W80	CAP,CER 223K-B1E -CP
C403	08S45676W80	CAP,CER 223K-B1E -CP
C405	08S45677W14	CAP,CER.12RJ-CH1H-CP
C406	08S45677W16	CAP,CER.15RJ-CH1H-CP

Symbol No.	Part No.	Description
C407	08S45676W85	CAP,CER 104K-B1C -CP
C451	08S45676W80	CAP,CER 223K-B1E -CP
C452	08S35374W01	CAP,CER 104K-B1E-CP
C453	08S45676W85	CAP,CER 104K-B1C -CP
C454	08S45676W80	CAP,CER 223K-B1E -CP
C455	08S45676W80	CAP,CER 223K-B1E -CP
C456	08S45676W80	CAP,CER 223K-B1E -CP
E401	23S55311W42	CAP,TAN.4R7-1D-B -CP
E451	23S55311W42	CAP,TAN.4R7-1D-B -CP
Resistors		
R402	06T25277Y81	RES,RK 103J 1/16 -CP
R403	06T25277Y81	RES,RK 103J 1/16 -CP
R404	06T25277Y73	RES,RK 472J 1/16 -CP
R405	06T25277Y57	RES,RK 102J 1/16 -CP
R414	06T25277Y57	RES,RK 102J 1/16 -CP
R415	06T25277Y89	RES,RK 223J 1/16 -CP
R416	06T25277Y89	RES,RK 223J 1/16 -CP
R417	06T25277Y57	RES,RK 102J 1/16 -CP
R418	06T25277Y33	RES,RK 101J 1/16 -CP
R419	06T75433W41	RES,RK 471J 1/4 -CP
R420	06T75433W45	RES,RK 681J 1/4 -CP
R421	06T75433W39	RES,RK 391J 1/4 -CP
R422	06T75433W39	RES,RK 391J 1/4 -CP
R423	06T75433W33	RES,RK 221J 1/4 -CP
R424	06T75433W33	RES,RK 221J 1/4 -CP
R425	06T75433W33	RES,RK 221J 1/4 -CP
R426	06T75433W39	RES,RK 391J 1/4 -CP
R427	06T75433W33	RES,RK 221J 1/4 -CP
R428	06T75433W39	RES,RK 391J 1/4 -CP
R429	06T75433W33	RES,RK 221J 1/4 -CP
R430	06T75433W39	RES,RK 391J 1/4 -CP
R431	06T75433W33	RES,RK 221J 1/4 -CP
R432	06T75433W39	RES,RK 391J 1/4 -CP
R433	06T75433W31	RES,RK 181J 1/4 -CP
R434	06T75433W39	RES,RK 391J 1/4 -CP
R437	06T75433W33	RES,RK 221J 1/4 -CP
R438	06T75433W39	RES,RK 391J 1/4 -CP
R439	06T75433W39	RES,RK 391J 1/4 -CP
R440	06T75433W39	RES,RK 391J 1/4 -CP
R441	06T25277Y65	RES,RK 222J 1/16 -CP
R442	06T25277Y65	RES,RK 222J 1/16 -CP
R443	06T25277Y89	RES,RK 223J 1/16 -CP
R444	06T25277Y89	RES,RK 223J 1/16 -CP
R445	06T25277Y89	RES,RK 223J 1/16 -CP
R446	06T25277Y89	RES,RK 223J 1/16 -CP
R447	06T25277Y89	RES,RK 223J 1/16 -CP

Symbol No.	Part No.	Description
R448	06T25279Y04	RES,RK JUMPER1/16-CP
R451	06T25278Y02	RES,RK 683J 1/16 -CP
R452	06T25278Y16	RES,RK 274J 1/16 -CP
R453	06T25278Y11	RES,RK 164J 1/16 -CP
R454	06T25277Y57	RES,RK 102J 1/16 -CP
R455	06T25279Y04	RES,RK JUMPER1/16-CP
R471	06T75433W39	RES,RK 391J 1/4 -CP
R472	06T75433W39	RES,RK 391J 1/4 -CP
R473	06T75433W34	RES,RK 241J 1/4 -CP
R474	06T75433W34	RES,RK 241J 1/4 -CP
R475	06T75433W56	RES,RK 202J 1/4 -CP
R476	06T25277Y89	RES,RK 223J 1/16 -CP
R477	06T25279Y04	RES,RK JUMPER1/16-CP
R478	06T25277Y97	RES,RK 473J 1/16 -CP
R479	06T25277Y57	RES,RK 102J 1/16 -CP
RA401	06S45591W06	RES,ARY MNR102J 4-CP
RA402	06S45591W06	RES,ARY MNR102J 4-CP
RA403	06S45591W06	RES,ARY MNR102J 4-CP
Connectors		
CB401	09T25657Y22	FFC,SFV22R-2STE1 -E9
CB402	09T25657Y10	FFC,SFV10R-2STE1 -E9
CB471	09T25261Y06	FFC,SFW06R-1STE1 -E9
DC/DC P.W.Board		
IC's		
IC902	51T80251F01	NJM78L09A -NB
IC903	51T80252F01	NJM79L09A -NB
Transistors		
Q901	48T69176F02	TR ,2SC3421-Y
Q902	48T69176F02	TR ,2SC3421-Y
Q903	48T35586W01	TR ,2SC3518-Z -NE5
Q904	48T93828F04	TR,2SD1994A-S-TA -RD
Q905	48T69176F02	TR ,2SC3421-Y
Diodes		
D901	48T73079F04	DIO,1SS82 -R5
D902	48T73079F04	DIO,1SS82 -R5
D903	48T73079F04	DIO,1SS82 -R5

Symbol No.	Part No.	Description
D904	48T73079F04	DIO,1SS82 -R5
D905	48T73079F04	DIO,1SS82 -R5
D906	48T73079F04	DIO,1SS82 -R5
ZD901	48T83128F26	DIO,ZEN.HZS 9C2L -A5
ZD902	48T90517F75	DIO,ZEN.HZS 24NB4-A5
ZD903	48T90517F64	DIO,ZEN.HZS 18NB3-A5
Transformer		
T901	25T35113Y02	TRANS,LC-128 -DB
Capacitors		
C901	08S65128F70	CAP,CER.123K-B1H -CP
E901	23T00149L25	CAP,SME.101-1C -R5
E902	23T45365W06	CAP,SME 33R-1V -R2
E903	23T00149L25	CAP,SME.101-1C -R5
E904	23T45365W11	CAP,SME 1R0-1H -R2
E905	23T45365W18	CAP,SME 47R-1H -R2
E906	23T00149L39	CAP,SME.471-1E -R5
E907	23T45365W04	CAP,SME 47R-1E -R2
E908	23T00149L33	CAP,SME.22R-1E -R5
E909	23T45365W04	CAP,SME 47R-1E -R2
E910	23T00149L33	CAP,SME.22R-1E -R5
E911	23T45365W12	CAP,SME 2R2-1H -R2
Resistors		
R901	06T75433W33	RES,RK 221J 1/4 -CP
R902	06T75433W51	RES,RK 122J 1/4 -CP
R903	06T75433W59	RES,RK 272J 1/4 -CP
R904	06T75433W09	RES,RK 22RJ 1/4 -CP
R905	06T75433W61	RES,RK 332J 1/4 -CP
R906	06T00188L04	RES,PSC.393-J-1/6-A5
R907	06T00188L04	RES,PSC.393-J-1/6-A5
R908	06T75434W23	RES,RK 5R6J 1/4 -CP
R909	06T75434W23	RES,RK 5R6J 1/4 -CP
R910	06T75434W23	RES,RK 5R6J 1/4 -CP
Connector		
CB901	09T25436Y09	WTB,53253-0910 -DB

Symbol No.	Part No.	Description
ESC P.W.Board		
Transistor		
Q641	48T64222F01	TR ,UN2211 10-10 -TX
LED's		
LD641	48T25454Y01	LED,GRN BG1101F -CP
LD642	48T25454Y01	LED,GRN BG1101F -CP
Switches		
SW641	40T25004Y01	SW,TACT SKQYPB -E2(NOSE)
SW642	40T25004Y01	SW,TACT SKQYPB -E2(RESET)
Resistor		
R641	06T75433W36	RES,RK 301J 1/4 -CP
Connector		
CH641	09T85454W05	WTB,53398-0590 -E9
Front-Mini P.W.Board		
LED's		
LD471	48T15110Y02	LED,A/G AABG1211C-CP
LD472	48T15110Y02	LED,A/G AABG1211C-CP
LD473	48T15110Y02	LED,A/G AABG1211C-CP
LD474	48T15110Y02	LED,A/G AABG1211C-CP
LD475	48T25583Y01	LED,BLU KB1111CE -CP
LD476	48T15110Y02	LED,A/G AABG1211C-CP
LD477	48T15110Y02	LED,A/G AABG1211C-CP
D-OUT P.W.Board		
IC		
IC131	51T75111W01	TOTX193 -DS

Symbol No.	Part No.	Description
Capacitor		
C133	08T15399W04	CAP,CER.273K-B1H -CP
Resistor		
R131	06T75433W71	RES,RK 822J 1/4 -CP
Connector		
CH131	01T75451W16	ASSY,WIRE D-OUT 69A
Sensor P.W.Board		
Resistors		
R621	06T25277Y97	RES,RK 473J 1/16 -CP
R622	06T25277Y97	RES,RK 473J 1/16 -CP
Connector		
CH621	09T75307W05	WTB,53261-0590 -E9
CD Servo P.W.Board		
IC's		
IC1	51E31218S01	AN8835S8
IC2	51E31219S01	NN6627481RPW
IC3	51E31220S01	BA6299FPE2
IC4	51E31221S01	MB89935A103E
IC5	51E31222S01	BD6600FV
IC6	51E31223S01	AN77L05M
Transistors		
Q1	48E31224S01	2SA1037AKTXR
Q4	48E31225S01	UW211F
Q6	48E31225S01	UW211F
Q7	48E31226S01	UN2213

Symbol No.	Part No.	Description
Diodes		
D1	48E31227S01	DNP1111R2
D2	48E31227S01	DNP1111R2
D3	48E31227S01	DNP1111R2
D4	48E31227S01	DNP1111R2
D5	48E31228S01	MA152WK
Crystals		
X1	91E31231S01	VSX1080
X2	91E31232S01	VSX1039
Switches		
SW1	40E31229S01	VSP1112
SW2	40E31230S01	RSP1A015-A
Capacitors		
C1	08E31302S01	RCSX0JX336RE
C2	08E31303S01	ECUM1E104ZFN
C3	08E31304S01	EEVMC0J101
C4	08E31305S01	ECUN1C224KBN
C5	08E31303S01	ECUM1E104ZFN
C6	08E31306S01	ECUX1E104KBN
C7	08E31306S01	ECUX1E104KBN
C8	08E31307S01	EUCM1H272KBN
C9	08E31308S01	ECUX1E273KBN
C10	08E31306S01	ECUX1E104KBN
C11	08E31306S01	ECUX1E104KBN
C12	08E31309S01	ECUM1H222KBN
C13	08E31310S01	ECUM1H182KBN
C14	08E31306S01	ECUX1E104KBN
C15	08E31311S01	ECUM1E473KBN
C16	08E31312S01	ECUM1H103KBN
C17	08E31308S01	ECUX1E273KBN
C18	08E31313S01	ECUM1H471KBN
C19	08E31306S01	ECUX1E104KBN
C20	08E31314S01	ECUX1H223KBN
C21	08E31306S01	ECUX1E104KBN
C23	08E31315S01	ECUM1H270JCN
C24	08E31315S01	ECUM1H270JCN
C25	08E31303S01	ECUM1E104ZFN
C26	08E31316S01	ECUM1H102KBN
C27	08E31316S01	ECUM1H102KBN
C28	08E31317S01	ECUM1H223ZFN

Symbol No.	Part No.	Description
C29	08E31318S01	ECA1AAD221
C31	08E31306S01	ECUX1E104KBN
C32	08E31306S01	ECUX1E104KBN
C33	08E31318S01	ECA1AAD221
C34	08E31319S01	ECUM1H561KBN
C35	08E31320S01	EEVMC0G101
C36	08E31321S01	EEVMC1A101
C37	08E31322S01	ECUX1A105KBN
C38	08E31321S01	EEVMC1A101
C39	08E31303S01	ECUM1E104ZFN
C40	08E31323S01	ECUM1H472KBN
C41	08E31312S01	ECUM1H103KBN
C42	08E31324S01	ECUM1C105ZFN
C45	08E31305S01	ECUN1C224KBN
C46	08E31312S01	ECUM1H103KBN
C47	08E31324S01	ECUM1C105ZFN
C48	08E31306S01	ECUX1E104KBN
C49	08E31322S01	ECUX1A105KBN
C50	08E31309S01	ECUM1H222KBN
C51	08E31309S01	ECUM1H222KBN
C52	08E31309S01	ECUM1H222KBN
C53	08E31322S01	ECUX1A105KBN
C54	08E31314S01	ECUX1H223KBN
C55	08E31314S01	ECUX1H223KBN
C56	08E31325S01	EEVMC0J470
C57	08E31303S01	ECUM1E104ZFN
C58	08E31304S01	EEVMC0J101
C59	08E31304S01	EEVMC0J101
C60	08E31312S01	ECUM1H103KBN
C61	08E31323S01	ECUM1H472KBN
C62	08E31305S01	ECUN1C224KBN
C65	08E31312S01	ECUM1H103KBN
C67	08E31312S01	ECUM1H103KBN
Resistors		
R1	06E31326S01	ERJ6GEYJ4R7
R2	06E31327S01	ERJ6GEYG221
R3	06E31328S01	ERJ6GEYJ150
R4	06E31329S01	ERJ6GEYJ100
R5	06E31330S01	ERJ6GEYG330
R6	06E31331S01	ERJ6GEYG224
R7	06E31332S01	ERJ6GEYG184
R9	06E31333S01	ERJ6GEYG103
R11	06E31333S01	ERJ6GEYG103
R12	06E31334S01	ERJ6GEYF393
R13	06E31335S01	ERJ6GEYG183
R14	06E31336S01	ERJ6GEYF473

Symbol No.	Part No.	Description
R15	06E31336S01	ERJ6GEYF473
R16	06E31337S01	ERJ6GEYG154
R17	06E31338S01	ERJ6GEYG683
R18	06E31339S01	ERJ6GEYG471
R19	06E31338S01	ERJ6GEYG683
R20	06E31340S01	ERJ6GEYG101
R21	06E31341S01	ERJ6GEYG220
R22	06E31341S01	ERJ6GEYG220
R23	06E31342S01	ERJ6GEYG222
R24	06E31342S01	ERJ6GEYG222
R26	06E31343S01	ERJ6GEYJ1R8
R27	06E31336S01	ERJ6GEYF473
R28	06E31342S01	ERJ6GEYG222
R29	06E31342S01	ERJ6GEYG222
R31	06E31336S01	ERJ6GEYF473
R32	06E31344S01	ERJ6GEYG562
R33	06E31345S01	ERJ6GEYG223
R34	06E31336S01	ERJ6GEYF473
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R36	06E31336S01	ERJ6GEYF473
R37	06E31336S01	ERJ6GEYF473
R38	06E31346S01	ERJ6GEYJ2R2
R40	06E31346S01	ERJ6GEYJ2R2
R41	06E31347S01	ERJ8GEY0R00
R42	06E31348S01	ERJ6GEYG102
R43	06E31349S01	ERJ6GEYG331
R44	06E31349S01	ERJ6GEYG331
R45	06E31349S01	ERJ6GEYG331
R46	06E31348S01	ERJ6GEYG102
R48	06E31350S01	ERJ8GEYJ2R2
R49	06E31351S01	ERJ6GEYG155
R50	06E31345S01	ERJ6GEYG223
R52	06E31336S01	ERJ6GEYF473
R53	06E31345S01	ERJ6GEYG223
R54	06E31345S01	ERJ6GEYG223
R55	06E31336S01	ERJ6GEYF473
R57	06E31352S01	ERJ6GEYF472
R58	06E31348S01	ERJ6GEYG102
R59	06E31348S01	ERJ6GEYG102
R60	06E31353S01	ERJ6GEYF123
R61	06E31354S01	ERJ6GEYG182
R62	06E31329S01	ERJ6GEYJ100
R63	06E31340S01	ERJ6GEYG101
R64	06E31340S01	ERJ6GEYG101
R65	06E31340S01	ERJ6GEYG101
R66	06E31340S01	ERJ6GEYG101
R67	06E31340S01	ERJ6GEYG101
R68	06E31340S01	ERJ6GEYG101
R69	06E31340S01	ERJ6GEYG101

Symbol No.	Part No.	Description
R70	06E31340S01	ERJ6GEYG101
R71	06E31340S01	ERJ6GEYG101
R72	06E31355S01	ERJ6GEYG331
R74	06E31356S01	ERJ6GEYJ1R0
R75	06E31356S01	ERJ6GEYJ1R0
R76	06E31345S01	ERJ6GEYG223
R77	06E31339S01	ERJ6GEYG471
R78	06E31345S01	ERJ6GEYG223
R79	06E31333S01	ERJ6GEYG103
R80	06E31340S01	ERJ6GEYG101
R81	06E31340S01	ERJ6GEYG101
R82	06E31357S01	ERJ6GEYF822
R83	06E31358S01	ERJ6GEYJ274
R84	06E31359S01	ERJ6GEY0R00
R86	06E31345S01	ERJ6GEYG223
R87	06E31333S01	ERJGEYG103
R89	06E31359S01	ERJ6GEY0R00

Connectors

Symbol No.	Part No.	Description
CN1	09E31233S01	RJS2A1816T
CN2	09E31234S01	VJS4341B026
CN3	09E31235S01	VJS4243B004
CN4	09E31236S01	VJP3172D002
CN5	09E31237S01	VJS4342B005

Miscellaneous

Symbol No.	Part No.	Description
ANT001	01T15513W23	ASSY,ANT CABLE 7844
CB801	09T55175W16	CON,53377-1620
CH631	01T25413Y02	ASSY,CONN 2P
DIN001	01T35496Y03	ASSY,DIN 7867A
LCD401	01T35549Y01	OELD,SD-020A
M631	59T65085W01	MOTOR,LOAD FF-050SK (NOSE MOTOR/7V-370mA)
RCA001	01T35497Y05	ASSY,WIRE RCA 7969 (REAR OUT & FRONT OUT & SUB-W)
SW422	40T45670W31	ENC,EC11B15203 -DB(VOLUME)
SW621	40T15494Y01	SW,DETCT SPVG23 -E6 (NOSE CLOSE DET)
SW622	40T15494Y02	SW,DETCT SPVG13 -E6 (NOSE OPEN DET)
VR621	18T25405Y01	ROT,RDC503002 -EA (DETECT ANGLE SENSOR)

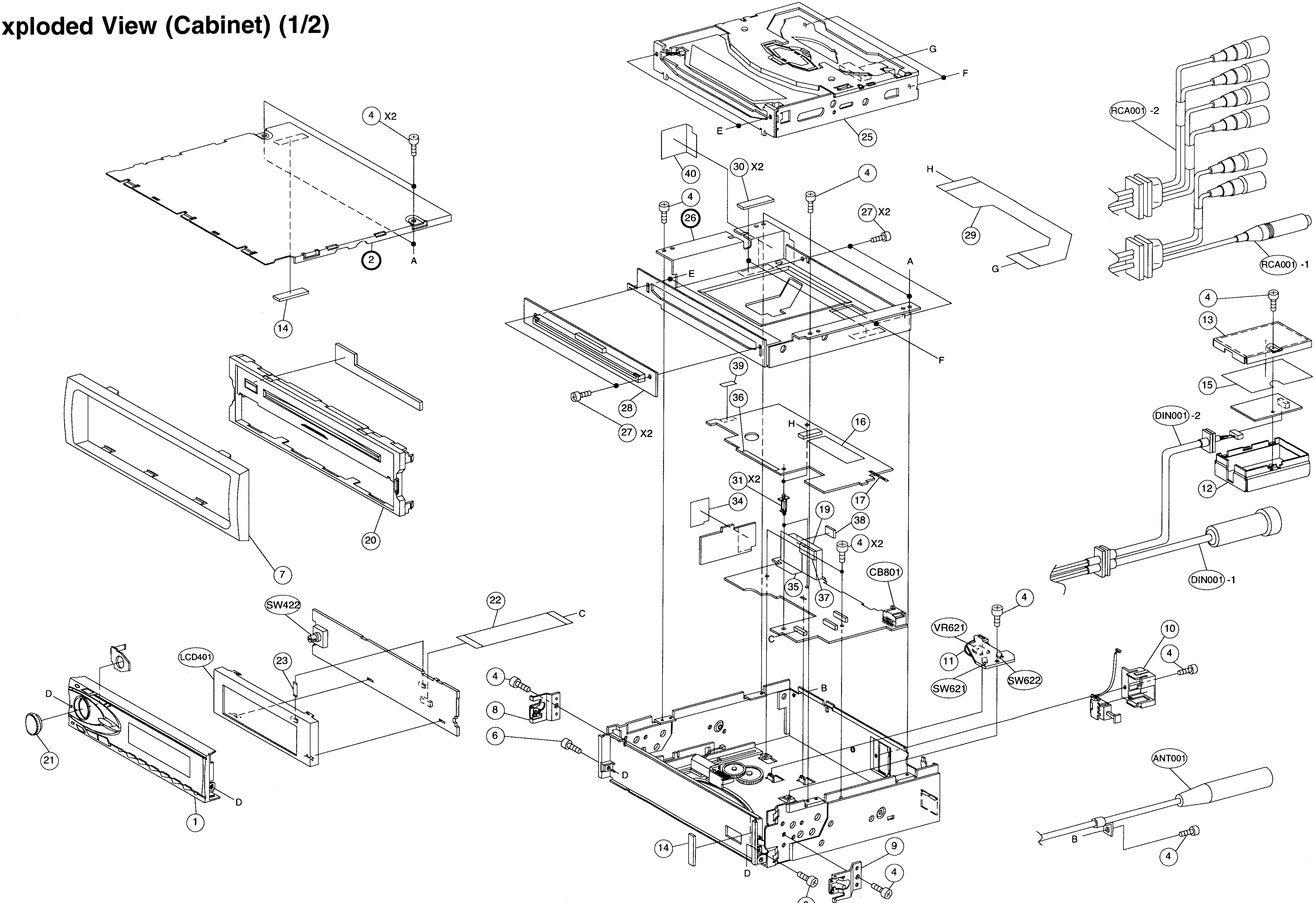
Symbol No.	Part No.	Description

Cabinet Assembly Parts List

NOTE:Parts without part number are not supplied.

Symbol No.	Index	Part No.	Description
1		13C31193Y03	NOSE,PIECE ASSY
4		03S44205G29	SCR,T-TITE M2.6X6
6		03S94385F60	SCR,NYLOK M2.6X4
7		33C31836Y01	FACE,PLATE
8		07D91595W01	BKT,SIDE ASSY
9		07D91595W02	BKT,SIDE(R) ASSY
10		15B71937W01	COVER,CONN.D-OUT
11		44A31316Y01	GEAR,SENSOR
12		15C11509Y01	CASE,DC-DC
13		15B11508Y01	COVER,DC-DC
14		75T25010Y11	CUSHION,SHIELD3X5-24
15		14A20122Y01	INSULATOR,DC-DC
16		14S31545Y08	INS,CVR 70X20XT0.1
17		30A80079F08	SHIELD,EARTH 35MM
19		77B30901Y01	MB4R9030,FM/AM UNIT (TU001)
20		13B31210Y01	NOSE,BASE ASSY
21		36C31339Y01	KNOB,ROTARY ASSY
22		84T35642Y01	FPC,MF7867A
23		30T25456Y18	SMCD-6X27.5-ESX8.5
25		81T35454Y01	DVS-100,CD DECK
27		03S94385F65	SCR,NYLOK M2.6X5
28		15B31318Y01	HOLDER,DISC
29		84T35641Y01	FPC,CD MECH 7867A
30		75S21219Y83	CUSH,RUB 30X7XT5.5
31		43T15475Y03	SPACER,PWB YP-12.5
34		14T45171Y05	EMI,K4E(10)-35X22TAS
35		14T45171Y02	EMI,K4E(10)-50X30TAS
36		14T45171Y03	EMI,K4E(10)-60X5TAS
37		75T25010Y32	CUSHION,SHLD10-9-25L
38		75T25010Y31	CUSHION,SHLD10-8-20
39		14T45171Y04	EMI,K4E(10)-30X6TS
40		14T45171Y01	EMI,K4E(10)-40X22TAS
100		07C31301Y01	BKT,SLIDER
101		07B31302Y01	ARM,L
102		07B31302Y02	ARM,R
103		07B31303Y01	BKT,BASE L
104		07B31303Y02	BKT,BASE R
105		45B31304Y01	LEVER,L
106		45B31304Y02	LEVER,R
107		07B31305Y01	BKT,MOTOR
108		15A31306Y01	HOLDER,FPC
109		07C31307Y01	BKT,NOSE BOTTOM ASSY
110		44B31308Y01	GEAR,LEVER
111		44A31309Y01	GEAR,DRIVE
112		41A31313Y01	SPRING,WORM
113		41A31310Y01	SPRING,NOSE L
114		41A31310Y02	SPRING,NOSE R
115		41A31311Y01	SPRING,LEBER L
116		41A31311Y02	SPRING,LEVER R
117		41A31314Y01	SPRING,SLIDE
118		43A31315Y01	BUSH,LEVER
119		49A31312Y01	ROLLER,SLIDE
120		03A30851Y02	SCR,SLIDER
121		44B90541W02	GEAR CLUTCH,ASSY
122		44A90467W02	GEAR,WORM
123		03S94385F13	SCR,NYLOK M2.6X3
124		3S94385F25S	CREW,NYLOK
125		03S68259F23	SCR,P-LOCK M2X3
126		04B41345P54	WASHER,LOCK
127		04B41345P22	WASH,2.6X6X0.35
128		14B31336Y01	INS,CVR BOTTOM
129		75S21219Y69	CHAS,RUB 50X10XT3
130		04B41345P23	WASH,1.7X5X0.35
131		75S21219Y84	CUSH,RUB 5X5XT2.5

Exploded View (Cabinet) (1/2)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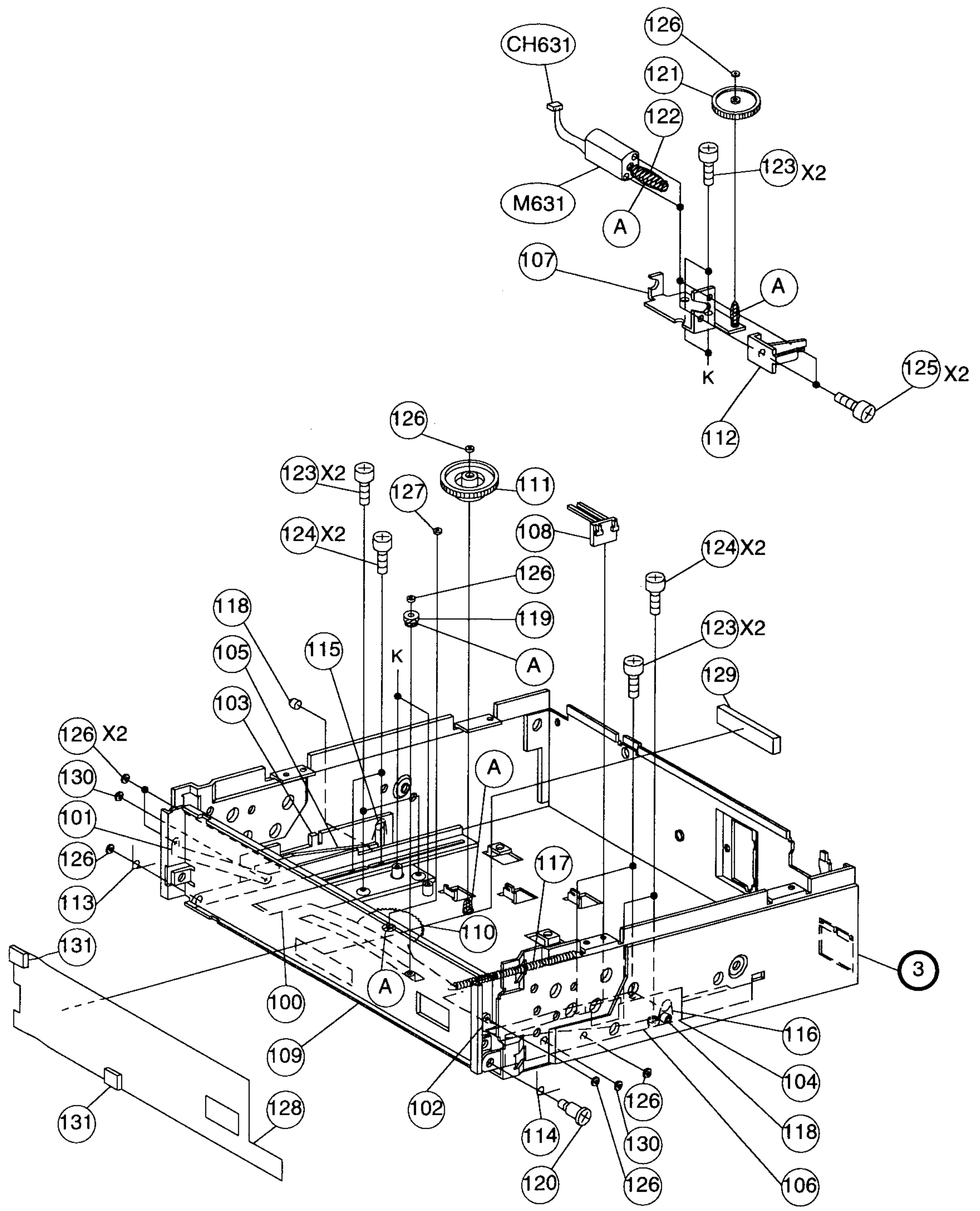
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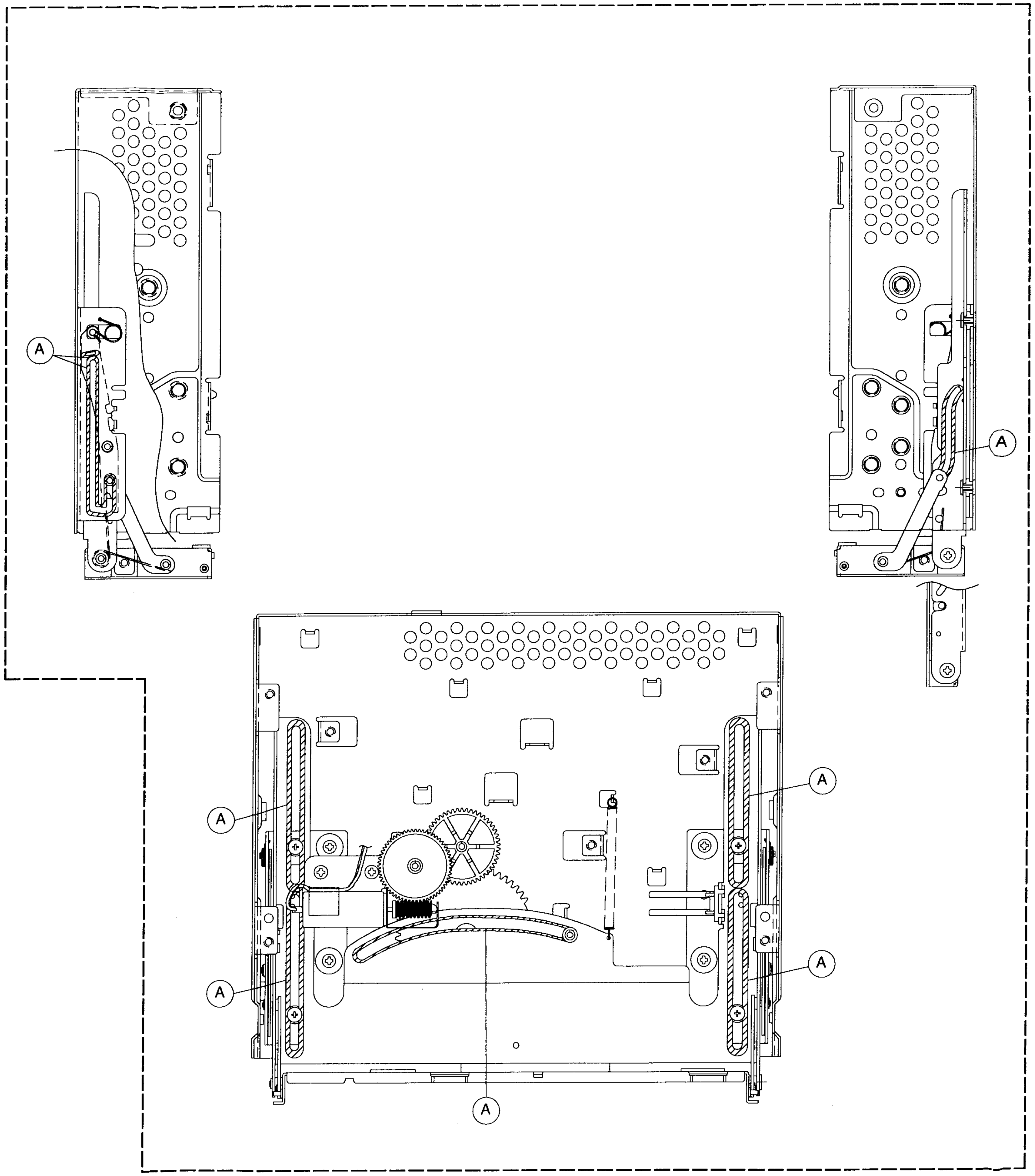


▨ ....point of GREASE applied.

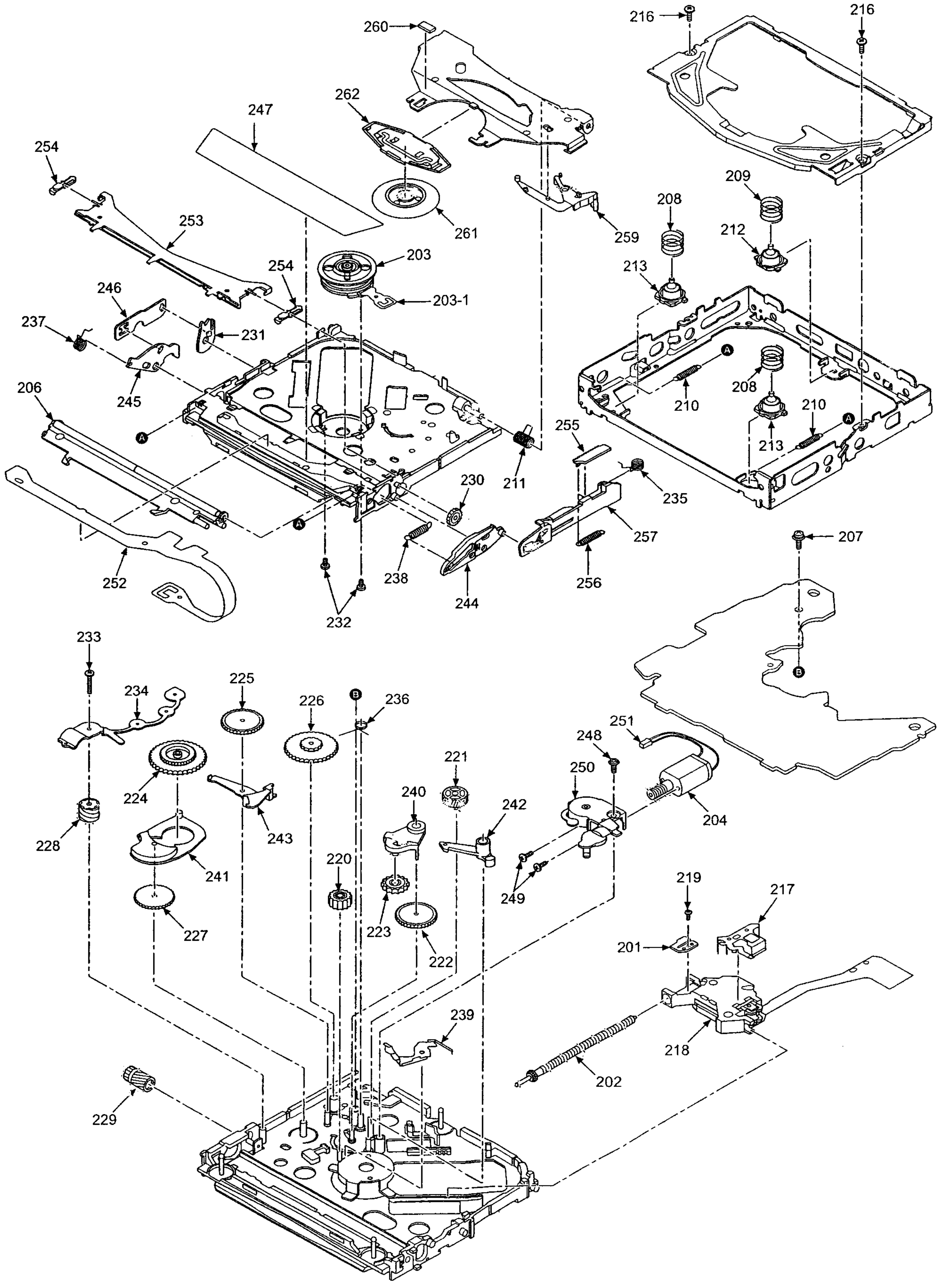
A	GREASE E PASTE (11S42419J09)

CD Deck Mechanism Assembly Parts List

NOTE:Parts without part number are not supplied.

Symbol No.	Index	Part No.	Description
201		15E31239S01	Holder,Leaf Spring
202		47E31240S01	Shaft Assy.
203		01E31241S01	Spindle Motor
204		01E31242S01	Drive Motor
206		49E31244S01	Rooler Assy.
207		03E31238S01	Screw
208		41E31245S01	Float Spring F
209		41E31246S01	Float Spring R
210		41E31247S01	Balance Spring
211		41E31248S01	Clamp Arm Spring
212		14E31249S01	Insulator R
213		14E31250S01	Insulator F
216		03E31253S01	Screw
217		07E31254S01	Pickup Holder
218		88E31255S01	Pickup
219		03E31256S01	Screw
220		44E31257S01	TR Bevel
221		49E31258S01	Warm Wheel
222		44E31259S01	Change Gear
223		44E31260S01	Change Lever Gear
224		44E31261S01	Slowdown Gear A
225		44E31262S01	Slowdown Gear B
226		44E31263S01	Slowdown Gear C
227		44E31264S01	Roller Stop Level Gear
228		44E31265S01	Roller Gear A
229		44E31266S01	Roller Gear B
230		49E31267S01	Roller Idler
231		45E31268S01	L Lock Cam
232		03E31269S01	Screw
233		03E31270S01	Screw
234		07E31271S01	Gear Hold
235		41E31272S01	Slider Return Spring
236		41E31273S01	Loading Hook Spring
237		41E31274S01	Roller Pressure Spring L
238		41E31276S01	Roller Pressure Spring R
239		07E31277S01	Drive Shaft Holder
240		45E31278S01	Change Lever
241		45E31279S01	Roller Stop Lever
242		45E31280S01	Traverse Hook
243		45E31281S01	Loading Hook
244		45E31282S01	R Side Arm
245		45E31283S01	L Side Arm
246		45E31284S01	L Side Link
247		26E31285S01	Protection Sheet
248		03E31286S01	Screw
249		03E31287S01	Screw
250		01E31288S01	Drive Motoe Angle
251		30E31289S01	Wire
252		84E31300S01	LPS FPC
253		45E31290S01	Disc Guide
254		45E31291S01	Disc Select Lever
255		46E31292S01	Rack Base
256		41E31293S01	Rack Spring
257		45E31294S01	Control Slider
259		45E31296S01	Trigger Arm
260		75E31297S01	Rubber Cushion
261		42E31298S01	Clamper
262		07E31301S01	Clamper Holder

Exploded View (CD Deck Mechanism) (DVS-100)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